

NSN: NWS0-22-400-0003

ASN: XEHB-6-02-08

DESCRIPTION: **Combined Modification Document -
Modification Note 64**
Retrofit of CDT-100s for the RDA and
Remote Access Terminals with
Personal Computers for RDA/RPG
Remote Terminal Access at NWS
Redundant Sites

DATE OF ISSUE: August 28, 2002

QUANTITY OF ISSUE: EACH

**RETROFIT OF CDT-100s FOR THE RDA AND REMOTE
ACCESS TERMINAL WITH PERSONAL COMPUTERS
FOR RDA/RPG REMOTE TERMINAL ACCESS AT NWS
REDUNDANT SYSTEMS**

**DOPPLER METEOROLOGICAL RADAR
WSR-88D**



DoD Distribution Statement A - Approved for public release; distribution is unlimited.

PUBLISHED UNDER AUTHORITY OF THE SECRETARIES OF
COMMERCE, THE AIR FORCE, THE NAVY, AND TRANSPORTATION

**Issuance Number: EHB 6-02-08
Issuance Date: 28 August 2002
NWS Rescission Date: 1 September 2003**

NWS APPROVAL:

 Date 8.28.2
Mark S. Paese
Acting Chief, Maintenance, Logistics,
and Acquisition Division

1. SUBJECT

Retrofit of CDT-100s in the Radar Data Acquisition (RDA), and the Remote RDA Terminal with Personal Computers (PC) for remote terminal access at NWS Redundant sites.

2. PURPOSE

This routine modification provides instructions to replace the CDT-100s used for the RDA Man Machine Interfaces (MMI), and the Remote RDA Terminal, with PCs containing modems. This modification provides a convenient and standard way to access the RDA remotely.

Remote terminal monitoring provides the electronics technicians with an efficient means for maintaining the system. It enables the technician to control and monitor the RDA at the forecast office as if they were at the RDA site. The authority for this modification is Engineering Change Proposal (ECP) 0155, Remote Access for NWS Redundant Systems.

For additional information concerning this document, contact the Radar Operations Center (ROC) Hotline, Norman, OK; phone number: (800) 643-3363 or (405) 366-2980 or by e-mail at NEXRAD.Hotline@noaa.gov. An electronic copy of this document can be found at the following internet address:

www.roc.noaa.gov/ssb/sysdoc/techman/tmlinks.asp

3. SITES AFFECTED

See [ATTACHMENT 3](#).

4. ESTIMATED COMPLETION DATE

This maintenance must be completed and reported no later than 60 days after receipt of this document and kit.

5. EQUIPMENT AFFECTED

Radar Data Acquisition Group.
Radar Product Generation (RPG) Group.
Remote RDA Terminal.

6. SPARES AFFECTED

Not applicable.

NWS: EHB-6, Modification Note 64**7. MODIFICATION ACCOMPLISHED BY**

Site electronics technicians will perform this modification. Two technicians are required to perform the attached procedures.

8. MATERIAL REQUIRED

Kit A. RDA MMI PC kit.

Nomenclature	Part Number	NSN	Qty
Personal Computer (PC)	2300028-301	7021-01-496-4136	02
Monitor***	2200015-201	7025-01-448-5948	02
Keyboard***	2200105-202	7025-01-448-6328	02
Mouse	2200105-203	7025-01-448-6326	02
Adapter, Serial	2200025-201	5935-01-448-6321	02
Modem, Null	2200106-201	6150-01-495-5235	02
Jack, Duplex	2200019-201	5935-01-448-9196	01
Cable Assembly, 1W900	2320002-301	6150-01-498-4344	01
Cable Assembly, 1W901	2320002-307	6150-01-494-7757	01
Cable Assembly, 5/105W902A	2320002-308	6150-01-494-7758	02
Surge Suppressor	2200020-201	5920-01-448-6322	02
Piece Parts Kit	F0155-KITA-MISC	NWSO-21-210-0001	01
Marker Kit			02
Grommet			02
Adhesive			01
A38 Designation Plate			02
A33 Designation Plate			02
A39 Designation Plate			02
PCAnywhere (Software)*	2200032-201	NWS9-72-090-0008	01
PC Passport (Software)*	2200032-202	NWS9-72-090-0007	02
CD-ROM, RDA/RPG Remote Access Restoral Software*	2200032-204	NWS9-72-090-0004	02
PC Passport (Documentation)*	2200032-203	NWS9-72-090-0006	02

NWS: EHB-6, Modification Note 64

Nomenclature	Part Number	NSN	Qty
CD-ROM, RDA Remote Access Users Guide *	N/A		02
CD-ROM, RDA/RPG Remote Access Terminal Software Enhancement for Open RPG	2200032-205	NWS0-12-260-0001	01
Quick Reference Sheets	N/A	NWS9-80-440-0002	02

Kit B. Remote RDA Terminal kit

Nomenclature	Part Number	NSN	Qty
Personal Computer (PC)	2300028-301	7021-01-496-4136	01
Monitor	2200015-201	7025-01-448-5948	01
Keyboard	2200105-202	7025-01-448-6328	01
Mouse	2200105-203	7025-01-448-6326	01
Adapter, Serial	2200025-201	5935-01-448-6321	01
Modem, Null	2200106-201	6150-01-495-5235	01
Jack, Duplex	2200019-201	5935-01-448-9196	01
Cable Assembly, W905	2320002-305	6150-01-494-7755	01
Cable Assembly, 32W900	2320002-306	6150-01-494-7756	01
Surge Suppressor	2200020-201	5920-01-448-6322	01
Tie Wraps, 100 per pkg**	MS3367-2-9	5975-00-156-3253	01
Piece Parts Kit	F0155-KITB-MISC	NWS0-21-210-0002	01
Marker Kit			01
A9 Designation Plate			01
A10 Designation Plate			01
A11 Designation Plate			01
PC Passport (Software)*	2200032-202	NWS9-72-090-0007	01
PC Passport (Documentation)*	2200032-203	NWS9-72-090-0006	01
PCAnywhere (Software)*	2200032-201	NWS9-72-090-0008	01
CD-ROM, RDA/RPG Remote Access Restoral Software*	2200032-204	NWS9-72-090-0004	01

NWS: EHB-6, Modification Note 64

Nomenclature	Part Number	NSN	Qty
CD-ROM, RDA Remote Access Users Guide *	N/A		01
Quick Reference Sheets	N/A	NWS9-80-440-0002	01
CD-ROM, RDA/RPG Remote Access Terminal Software Enhancement for Open RPG	2200032-205	NWS0-12-260-0001	01

*These items are shipped as part of Kit B, yet are not required or referenced in the installation procedures.

**These items will be used for both the Remote RDA Terminal and the RDA installation.

*** Will be shipped together in the same package.

9. SOURCE OF MATERIALS

Kit materials listed in paragraph 8 will be shipped to the site by the National Logistics Supply Center (NLSC) and the ROC at no cost. Retain the Original Equipment Manufacturer (OEM) containers to re-ship the RDA Remote Access Terminal in the event of a terminal failure.

10. SPECIAL TOOLS AND TEST EQUIPMENT REQUIRED

Not applicable.

11. TIME AND PERSONNEL REQUIRED

Work Phases	Work-hours
Unpacking	1.0
Disassembly	0.0
Installation	5.0
Assembly	0.0
Operational Check	1.0
Total Work-hours	7.0

12. DOCUMENTS AFFECTED

User's Guide, Remote Access for Redundant NWS systems, dated 15 August 2002

13. VERIFICATION STATEMENT

This modification was successfully completed at WSFO Reno, NV.

14. DISPOSITION OF REMOVED AND REPLACED PARTS/MATERIALS

The removed CDT-100 monitors and keyboards are to be left on site, as an on-site spare, in case of a RDA/RPG Remote Access Terminal failure.

15. PROCEDURES

Perform procedures in [ATTACHMENT 1](#) at the Remote RDA Terminal and [ATTACHMENT 2](#) at the RDA. The installation at the Remote RDA Terminal should be accomplished prior to the installation at the RDA.

16. FAA DISTRIBUTION

Not applicable.

17. CHANGES TO TABLE OF CONTENTS (FAA)

Not applicable.

18. RECOMMENDATIONS FOR CHANGES (FAA)

Not applicable.

19. REPORTING INSTRUCTIONS

Report completed maintenance on WS Form A-26, Engineering Management Reporting System Maintenance Record, according to the instructions in Engineering Handbook No. 4 (EHB-4), Engineering Management Reporting System (EMRS), part 2 and Appendix G. Include the following information on the WS Form A-26:

- An Equipment Code of RDA in Block 7.
- The appropriate serial number for the channel in Block 8.
- A Mod No. of 64 in Block 17a.

See ATTACHMENT 4 for a completed sample of WS Form A-26

ATTACHMENT 1

REMOTE RDA TERMINAL CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL
INSTALLATION

Tools Required

Screwdriver set, flat-tip
Screwdriver set, Phillips-tip
Diagonal pliers (wire-cutters)

Initial Condition

The following procedures assume the maintenance person installing the equipment has had some experience with Windows 3.1 or higher. If the installer is not familiar with such Windows terms as "icons" or "menus," read Microsoft's booklet for basic Windows information which is delivered with the equipment. The booklet is entitled "Windows 95".

1. Perform the following steps to shut down the RDA Remote Maintenance Terminal:
 - a. If Open RPG has not been installed, perform the following steps at the UCP:
 - (1) At the UCP Applications Terminal, verify the RPG Main menu is displayed. If not press the **<F1>** key.
 - (2) At the RPG Main menu, select the RDA Control menu by entering **RD<Return>** at the command line. The following message in the RDA Control field will be displayed:
RDA
CNTL
RPG

NOTE

In the next step, after RD,EN is entered at the UCP, the controlling channel will continue to indicate MODE REM OPER at the RDA Maintenance terminal until RELC (Request Local Control) is performed at that terminal (either remotely or at the RDA site assuming the RDA is in operate). If the controlling channel is in STBY, the MODE will go to L/R when the EN is performed at the UCP.

- (3) Enable local control of the RDA by entering **EN<Return>** at the command line. The message `COMMAND EXECUTED-RD, EN` will be displayed.
 - b. If Open RPG has been installed, perform the following steps at the MSCF:
 - (1) At the MSCF workstation, on the HCI (Human Computer Interface), click on the Control Block in the RDA container, and observe `RPG` is indicated in the `RDA Control:` line.

ATTACHMENT 1 (Continued)

REMOTE RDA TERMINAL CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION

- (2) Click the **Enable Local (RDA)** button in the RDA Control area. Enable RDA Control of RDA is noted on the Feedback: line.

NOTE

In step [1b\(2\)](#) after control is enabled from the MSCF workstation, the RDA will continue to indicate `MODE REM OPER` at the RDA Maintenance Terminal until RELC (Request Local Control) is performed at that terminal (either remotely or at the RDA site) assuming the RDA is in Operate. For redundant systems, only the controlling channel could be in Operate. If the controlling channel is in STBY, the MODE will already indicate L/R.

2. Perform the following steps to remove the CDT-100 from the RDA Remote Terminal:
 - a. Turn the power switch on the CDT-100 to the **OFF** position.
 - b. At the rear of the CDT-100, remove the EIA cable, 32W5, and retain in place.
 - c. At the rear of the CDT-100, remove the AUX cable, 32W6, and retain in place.
 - d. Remove the power cord from the rear of the CDT-100 and the power strip at the rear of the table.
 - e. Unplug the keyboard from the CDT-100, and set the keyboard aside.
 - f. Remove the six screws and the bracket holding the CDT-100 to the table. (See [figure 1](#))
 - g. Remove the CDT-100 and set aside.

ATTACHMENT 1 (Continued)

REMOTE RDA TERMINAL CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL
INSTALLATION

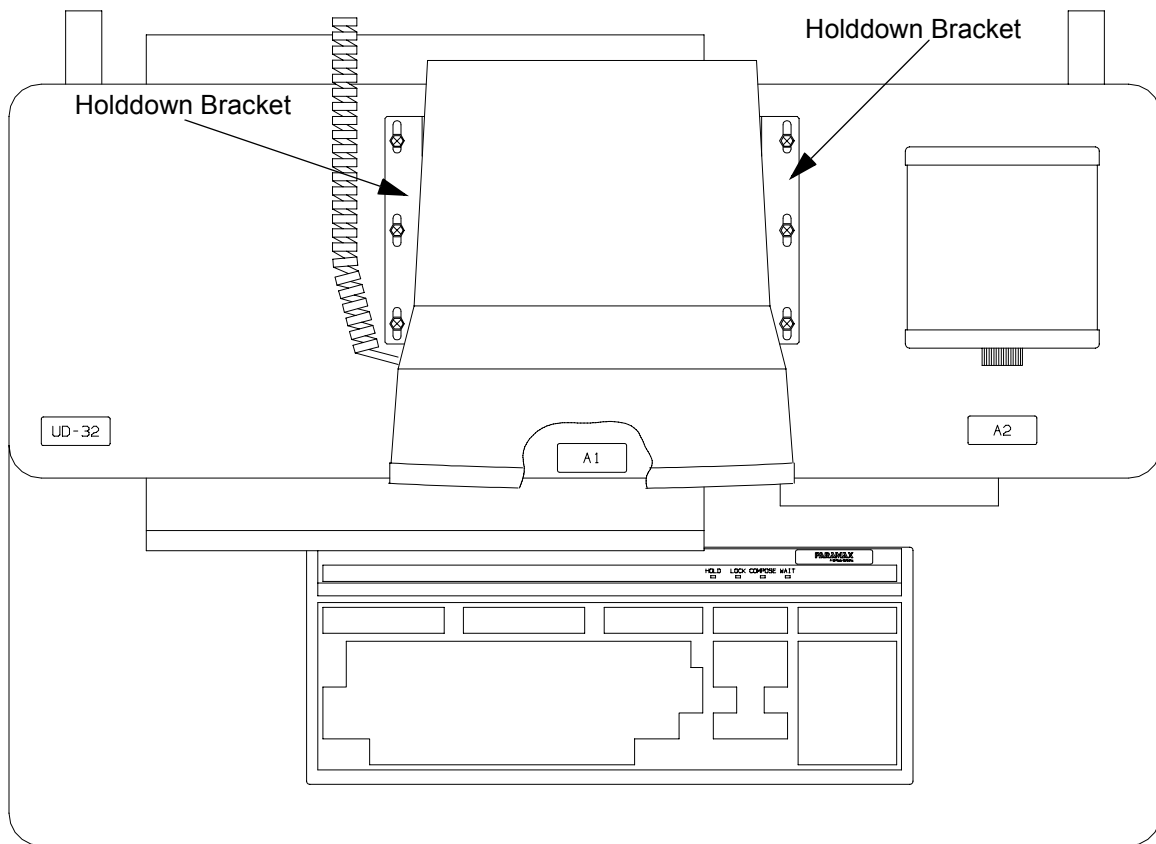


Figure 1 CDT-100 Holddown Bracket Location

ATTACHMENT 1 (Continued)

REMOTE RDA TERMINAL CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION

- h. Using the cable lables provided in the kit, remark the AUX cable per table 1.
- i. Using the cable lables provided in the kit, remark the EIA cable per table 1.

Table 1: Remote Maintenance Terminal Cable Reidentification

EQUIPMENT/CHANNEL		CABLE "FROM" END	CENTER MARKER	CABLE "TO" END	SERIAL ADAPTER PORT	NULL MODEM PORT
REMOTE RDA TERMINAL	REMARK CABLE FROM	32W5 P1(A2-C1)	32W5 56232ASSY1214871-323	32W5 P2(A1SES1-EIA)		
	TO	32W905 P1(A2-C1)	32W905 OWY55ASSY2320078-301	32W905 P2(32CP1)	PORT B	N/A
	REMARK CABLE FROM	32W6 P1(A2-C2)	32W6 56232ASSY1223381-304	32W6 P2(A1SES2-AUX)		
	TO	32W906 P1(A2-C2)	32W906 OWY55ASSY2320079-301	32W906 P2(32A12)	N/A	PORT A

3. Perform the following steps to install the new RDA Remote Access Terminal:
 - a. Position the Central Processing Unit (CPU) on the RDA Remote Terminal stand desk area. (See [figure 3](#)).
 - b. Raise or lower the upper shelf until there is approximately 1 inch or less of clearance between the shelf/modems/brackets and the CPU. This will prevent the CPU from falling off of the RDA Remote Terminal shelf.
 - c. Install the monitor base on the monitor.
 - d. Position the PC monitor on the shelf assembly directly above the CPU.
 - e. Position the surge suppressor (Isotel4, 32E1) on the floor behind the RDA Remote Terminal stand.

ATTACHMENT 1 (Continued)

REMOTE RDA TERMINAL CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION

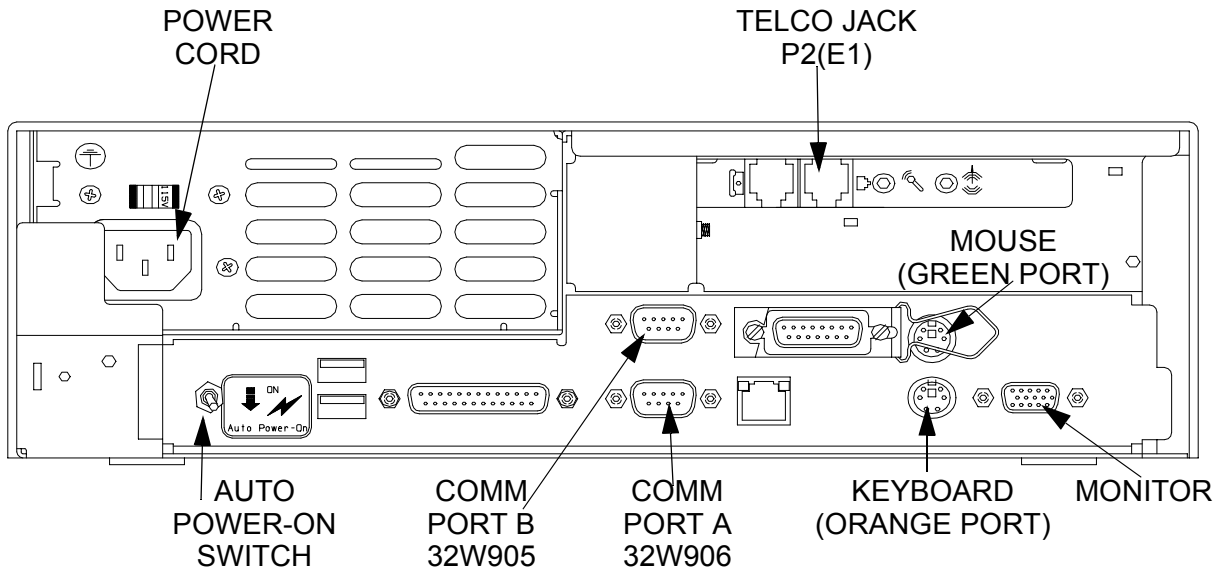


Figure 2 CPU Connection Points

- f. Using the 9-25 pin serial adaptor (part no. 2200025, provided in the kit), connect cable 32W905 to the CPU COMM Port B at the back of the CPU. See [figure 2](#) for the location of COMM Port B. This cable was the EIA cable.
- g. Using the 9-25 pin Null Modem adaptor (part no. 2200106-201, provided in the kit), connect cable 32W906 to the CPU COMM Port A at the back of the CPU. See [figure 2](#) for the location of COMM Port A. This cable was the AUX cable.
- h. Connect the end of the new 10 foot telephone cord (part no. 2320002-306, cable 32W900, provided in the kit) labeled P2(32A9A3TELCO) to the CPU modem TELCO jack and the other end to the surge suppressor (Isotel4) OUT jack (cable end labeled P1(32A1)). See [figure 2](#) for the location of TELCO jack.
- i. Connect the CPU monitor video cable to the CPU monitor jack. (See [figure 2](#))
- j. Position the mouse at the desired location on the table and connect the mouse to the CPU mouse jack. (Green upper port)(See [figure 2](#))
- k. Position the keyboard in front of the CPU and connect the keyboard to the CPU keyboard jack. (Orange lower port)(See [figure 2](#))
- l. Install the keyboard mask on the top of the keyboard.
- m. Connect the CPU power cord between the CPU and the surge suppressor (Isotel4).

ATTACHMENT 1 (Continued)

REMOTE RDA TERMINAL CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION

- n. Connect the RDA Remote Terminal new monitor power cord to the monitor and the Isotel4 surge suppressor.
- o. Disconnect the existing telephone cable from the RDA Remote Terminal workstation telephone and connect the Duplex Jack (CP1) to the telephone jack in the RJ11 jack located in the communications room.
- p. Connect the existing telephone cable removed from the workstation telephone to the duplex jack (CP1).
- q. Connect the new 25 foot telephone cable (W905, provided in the kit) between the Duplex Jack (CP1), and the Surge Suppressor (Isotel4, 32E1) IN jack. The end labeled P1(CP1) should be connected to the duplex jack.
- r. Connect the Surge Suppressor (Isotel4, 32E1) to the same power source used by the RDA Remote Terminal workstation power strip.
- s. Connect the workstation power strip to the Surge Suppressor (Isotel4, 32E1).
- t. Tie wrap the cables properly for a clean installation. Do not wrap power cables together with data cables.
- u. Turn **ON** the Surge Suppressor (Isotel4, 32E1).
- v. Turn **ON** the new CPU assembly (UD32A9).
- w. Ensure the power on switch on the back of the CPU is turn to "Auto Power-On", enabling the computer to reboot after power resumes.
- x. Turn **ON** the new Monitor (UD32A10).

NOTE

Do not run Systems Console or the Applications Terminal at this time. No data will be available.

- y. After the system completes its configuration (may take a few minutes), use the mouse or press **<Alt><Tab>** to select the Systems Console program window.
- z. Exit the Systems Console by pressing the **<Alt>** and **X** key and when prompted, press the **E** key.
- aa. Select the Applications Terminal by clicking anywhere within the Applications Terminal window.

ATTACHMENT 1 (Continued)

**REMOTE RDA TERMINAL CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL
INSTALLATION**

- ab. Exit the Applications Terminal by pressing the **<Alt>** and **X** key and when prompted press the **E** key.
 - ac. Place the new RDA Remote Terminal designation plates A9, A10, and A11, as shown in [figure 3](#).
4. Troubleshooting installation problems (if required):

NOTE

Do not open the RRRAT CPU. A long term warranty has been provided that you may violate and nullify in doing so. The terminal is provided as one LRU, and replacement parts internal to the terminal will not be supplied or provisioned separately. Replace the RRRAT CPU and monitor with the original CDT-100 for emergency backup, if necessary.

- a. If Diagnostics reports a failure, or if the system fails to boot up to the correct display, the following are possible causes:
 - (1) Verify the hardware installation is correct and that all cables are securely connected and attached to the correct connector.
 - (2) If there is a problem with a device within the terminal or with the RPG computers, the RDA/RPG Remote Access Terminal will respond in the same manner as the CDT-100. Access may be limited or impossible.
 - b. Return the entire terminal to the NRC for depot repair for any problems included, but not limited to the following:
 - CD-ROM Drive
 - Floppy Drive
 - Broken power switch
 - Hard Disk Drive
 - Internal Modem
5. The initial software load will be performed by the NRC. It is not necessary to perform any software restoral as part of the initial installation. If there appears to be a software problem during initial installation, return the terminal to the NRC.

ATTACHMENT 1 (Continued)

**REMOTE RDA TERMINAL CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL
INSTALLATION**

This page is intentionally left blank.

ATTACHMENT 1 (Continued)

REMOTE RDA TERMINAL CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION

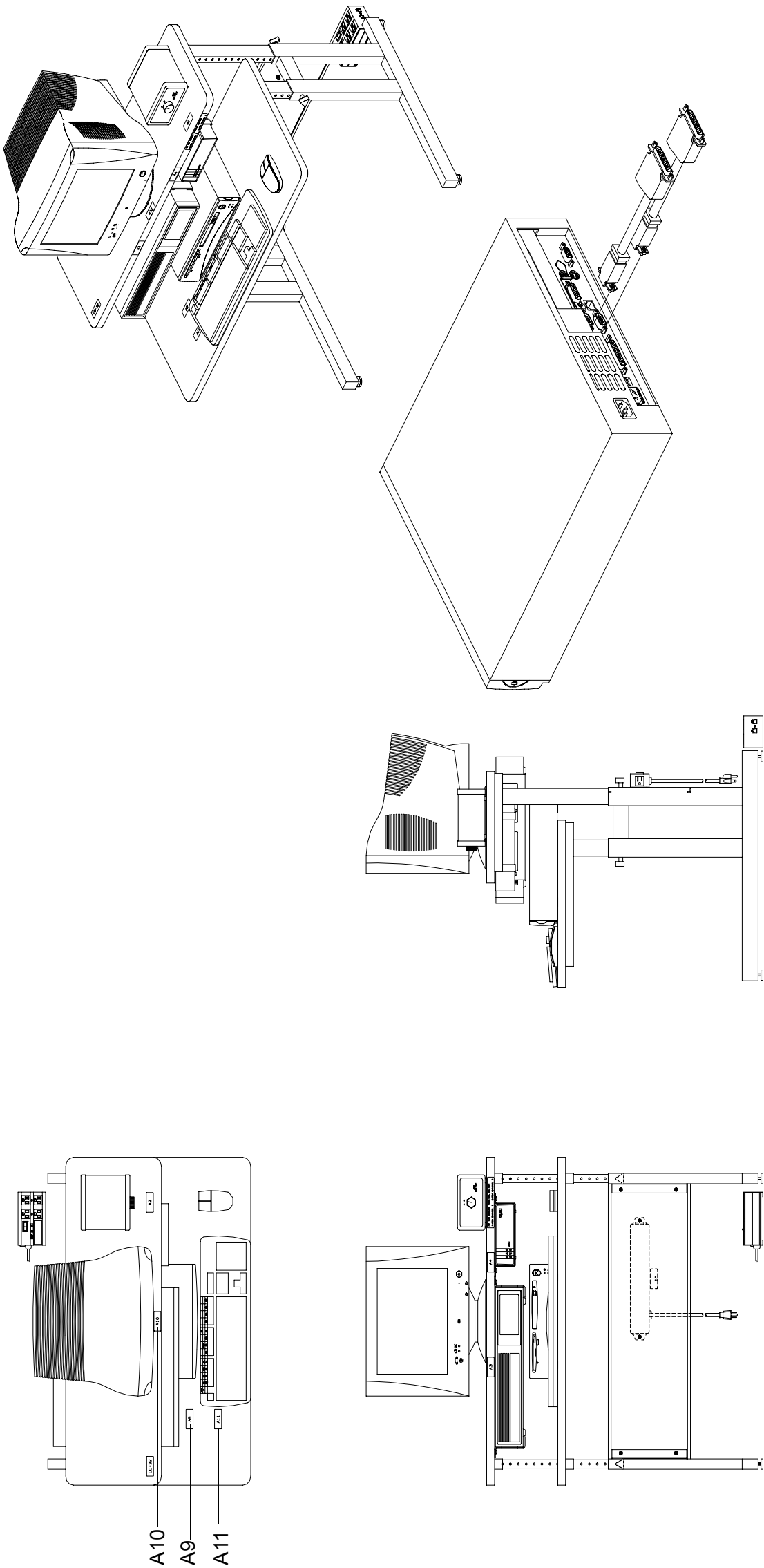


Figure 3 NWS Redundant RDA/RPG Remote Access Terminal Location

ATTACHMENT 2

RDA CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION

Tools Required

Screwdriver set, flat-tip
Screwdriver set, Phillips-tip
Diagonal pliers (wire-cutters)
Rule, multiple folding (carpenter's type)

Initial Condition

The following procedures assume the maintenance person installing the equipment has had some experience with Windows 3.1 or higher. If the installer is not familiar with such Windows terms as "icons" or "menus," read Microsoft's booklet for basic Windows information which is delivered with the equipment. The booklet is entitled "Windows 95".

The RDA/RPG Remote Access Terminal installation at the RDA is very similar to the installation at the RDA Remote Terminal. However, the installation at the RDA involves additional software setups. Be sure to complete [ATTACHMENT 2](#) in its entirety.

The following procedures are to be completed on channel 2 first and then channel 1.

1. Perform the following RDA shutdown procedures:
 - a. Place the A/B switch UD5/105A17 to the local position.
 - b. Ensure the RDA Applications Main menu is displayed by entering **MAIN<Return>** on the command line, and note any RDA alarms present for later equipment checkout.
 - c. Request RDA local control by entering **RELC<Return>** on the command line.
 - d. Verify the RDA state is STANDBY. If not, enter **STBY<Return>** on the command line.
 - e. Enter **TERP<Tab right>password<Return>** in the parameters area.
 - f. Simultaneously press the **<Shift>** and **<Port>** keys to access to the RDA System Console, and wait until the message **TASK02: END OF TASK 255** is displayed. If the **CDS>** prompt is displayed, enter **CO<Return>** for the system prompt mode.
 - g. At the * prompt, enter **ERR LOG,OFF<Return>** to turn error logger off.
 - h. Enter **D TA<Return>** and verify TIME is the only active task. If other tasks are found, enter **CA_{taskid}<Return>** to cancel all other tasks.
 - i. At the * prompt, enter **MA DSCØ:,OFF<Return>** to mark disk 0 off.

ATTACHMENT 2 (Continued)

RDA CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION

- j. At the * prompt, enter **D D/D<Return>** and verify all disks are marked off.
 - k. Press the **<Ctrl>** and **V** keys together twice to access the Control Diagnostics System.
 - l. Press the **<Return>** key until the **CDS>** prompt is displayed.
 - m. At the **CDS>** prompt, enter **KEY 1,password<Return>**.
 - n. At the **CDS>** prompt, enter **HA<Return>**.
 - o. At the **CDS>** prompt, enter **PO OFF<Return>**.
 - p. At the **CDS>** prompt, enter **PO ON,FP12<Return>** to return power to the swing-out power supply fans.
 - q. At the **CDS>** prompt, enter **STA 1,28<Return>** to verify power to the RDA cabinet is off.
2. Perform the following RDA Man Machine Interface (MMI) CDT-100 removal procedures:

NOTES

All cables disconnected from the RDA MMI CDT-100 will be used for the new RDA Remote Access Terminal installation.

All parts removed should be retained for future use. In the event of a RDA Remote Access Terminal failure it may be necessary to reinstall the RDA MMI CDT-100 terminal.

- a. Turn **OFF** the CDT-100 monitor.
- b. Turn **OFF** power to the VME chassis located under the CDT-100.
- c. Remove the brackets from the monitor base and set aside for possible future use.

CAUTION

Use caution when removing the bolts holding down the CDT-100 monitor and keyboard brackets in LPP systems. The bolts have nuts under the tray which could be dropped into the VME or the pedestal electronics.

- d. If applicable, remove the brackets from the keyboard and set aside for possible future use.
- e. Disconnect the keyboard cable from the monitor and remove the keyboard. Set the keyboard aside for possible future use.

ATTACHMENT 2 (Continued)**RDA CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION**

- f. Remove the power cord from the rear of the monitor and retain in place.
- g. Remove the cable from the CDT-100 AUX port and retain in place.
- h. Using the cable labels provided in the kit, remark the AUX cable per table 1.

Table 2: RDA Cable Reidentification

EQUIPMENT/CHANNEL		CABLE "FROM" END	CENTER MARKER	CABLE "TO" END	SERIAL ADAPTER PORT	NULL MODEM PORT
RDA UD5 CHANNEL 2	REMARK CABLE FROM	5/105W666 P1(A17-A1)	5/105W666 56232ASSY1214871-313	5/105W666 P2(A4SES1-EIA)		
	TO	5/105W907 P1(A17-A1)	5/105W907 56232ASSY1214871-331	5/105W907 P2(CP1)	PORT B	N/A
	REMARK CABLE FROM	5/105W667 P1(A17-A2)	5/105W667 56232ASSY1223378-301	5/105W667 P2(A4SES2-AUX)		
	TO	5/105W916 P1(A17-A2)	5/105W916 56232ASSY1223378-305	5/105W916 P2(A41)	N/A	PORT A
RDA UD105 CHANNEL 1	REMARK CABLE FROM	5/105W666 P1(A17-A1)	5/105W666 56232ASSY1214871-313	5/105W666 P2(A4SES1-EIA)		
	TO	5/105W907 P1(A17-A1)	5/105W907 56232ASSY1214871-331	5/105W907 P2(CP1)	PORT B	N/A
	REMARK CABLE FROM	5/105W667 P1(A17-A2)	5/105W667 56232ASSY1223378-301	5/105W667 P2(A4SES2-AUX)		
	TO	5/105W916 P1(A17-A2)	5/105W916 56232ASSY1223378-305	5/105W916 P2(A41)	N/A	PORT A

- i. Remove the cable from the CDT-100 EIA port and retain in place.
- j. Using the cable labels provided in the kit, remark the EIA cable per table 1.
- k. Remove the CDT-100 and set aside for possible future use.
- l. Remove any non-skid backing from the RDA MMI shelf.

ATTACHMENT 2 (Continued)

RDA CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION

- m. Remove the blank cover from UD5J9 located on the top of the center cabinet, or any other vacant access port opening to install the new TELCO line.

WARNING

The adhesive to be used in the next step can bond skin to skin. Apply only to the surface of the cabinet and grommet. The adhesive will set by the time the installation is complete.

- n. Install the grommet and adhesive provided in the kit around the opening of UD5J9, or any other vacant access port opening used to install the new TELCO line.
3. Perform the following cabinet reconfiguration steps:
- a. If a Channel Service Unit (CSU) is not installed, proceed to step 4. Otherwise, continue to the next step.
 - b. Reference [figure 6](#) and determine if the CSU and the Data Acquisition Unit (DAU) both need to be moved, or if repositioning the CSU alone will provide enough room to install the new equipment. Measure from 0.0 elevation to the CSU. Next measure from 0.0 elevation to the DAU bracket. The elevations measured should be within ½ inch of what is shown in [figure 6](#). If not, perform the following steps to relocate the DAU. However, if the elevation for the DAU is correct and only the CSU needs to be repositioned, proceed to step 3.d
 - c. Perform the following steps to relocate and reposition the CSU:
 - (1) Unplug the CSU transformer from the power strip located in the Radar Data Acquisition Status and Control (RDASC) cabinet.
 - (2) Remove cables P1 and J1.
 - (3) Remove all wires from TB1.
 - (4) Remove the CSU and mounting bracket from UD5.
 - (5) Reconfigure the CSU mounting brackets to match the following drawing:

ATTACHMENT 2 (Continued)

RDA CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION

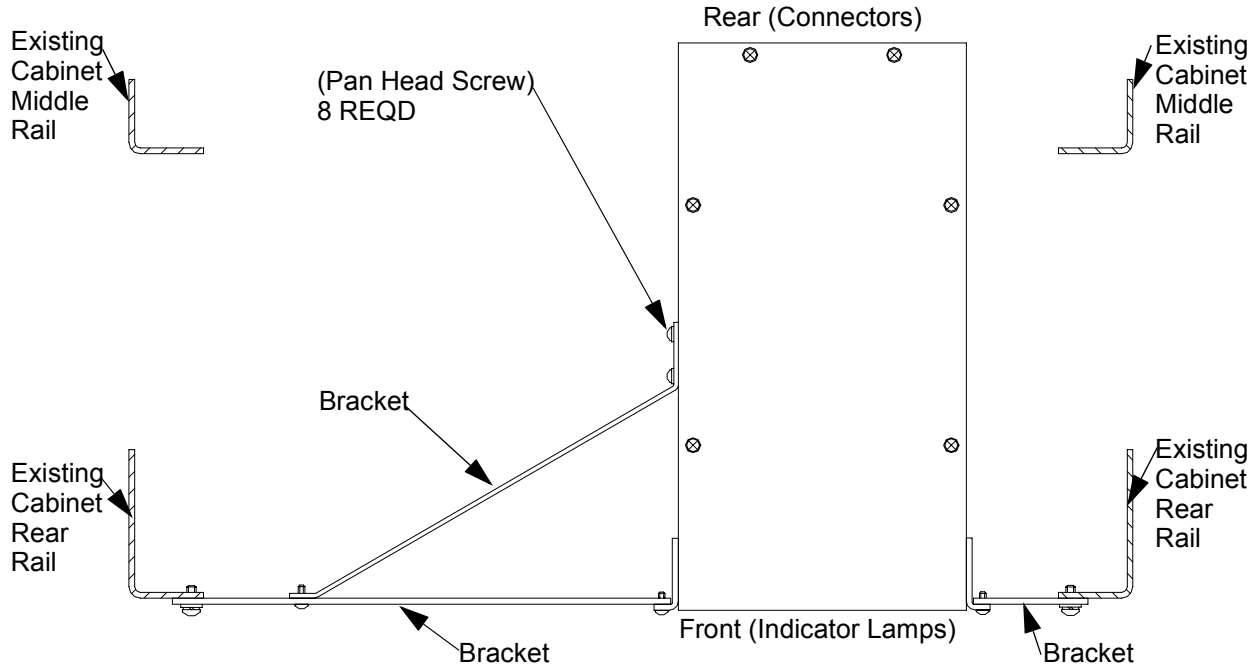
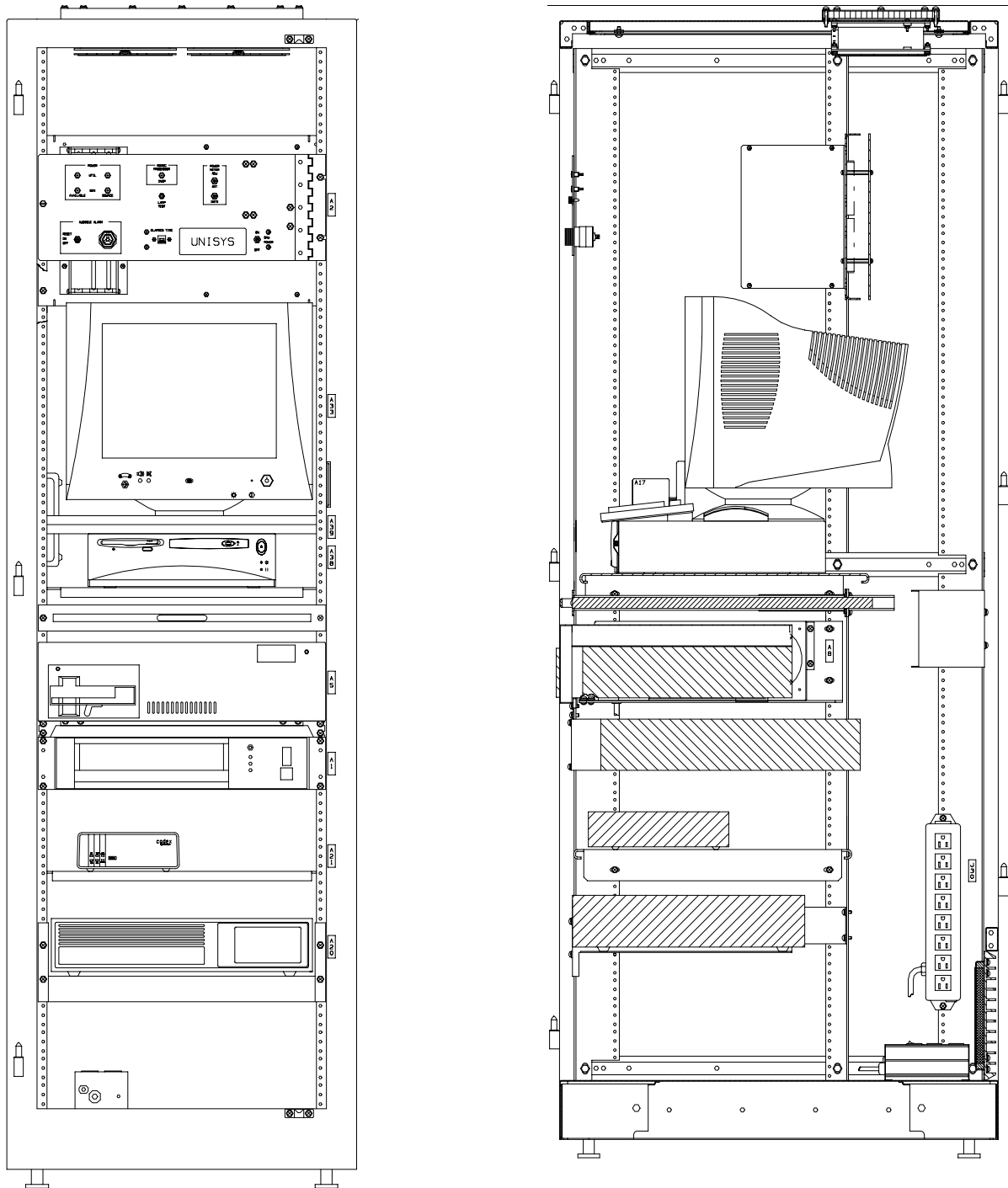


Figure 4 CSU Revised Configuration

- (6) Reinstall the CSU on the rear rails as close to the bottom of the DAU as the rail mounting holes will allow.
 - (7) Reconnect cables J1 and P1.
 - (8) Reconnect the cables on TB1.
 - (9) Remove the ESD wrist strap.
 - (10) Reconnect the power transformer.
4. Install the new RDA Remote Access Terminal by performing the following steps: (See [figure 5](#) for channel 1 and [figure 6](#) for channel 2)
 - a. Position the CPU on the RDA MMI shelf as far back as possible. It may be necessary to tilt the CPU and move the A/B switch to allow the CPU to fit into the cabinet between the front and middle rails. (See [figure 5](#) for channel 1 and [figure 6](#) for channel 2)
 - b. Install the CPU monitor base to the monitor.

ATTACHMENT 2 (Continued)

RDA CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION



Front View

Side View

Figure 5 RDA Channel 1 Remote Access Terminal Cabinet Position

ATTACHMENT 2 (Continued)

RDA CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION

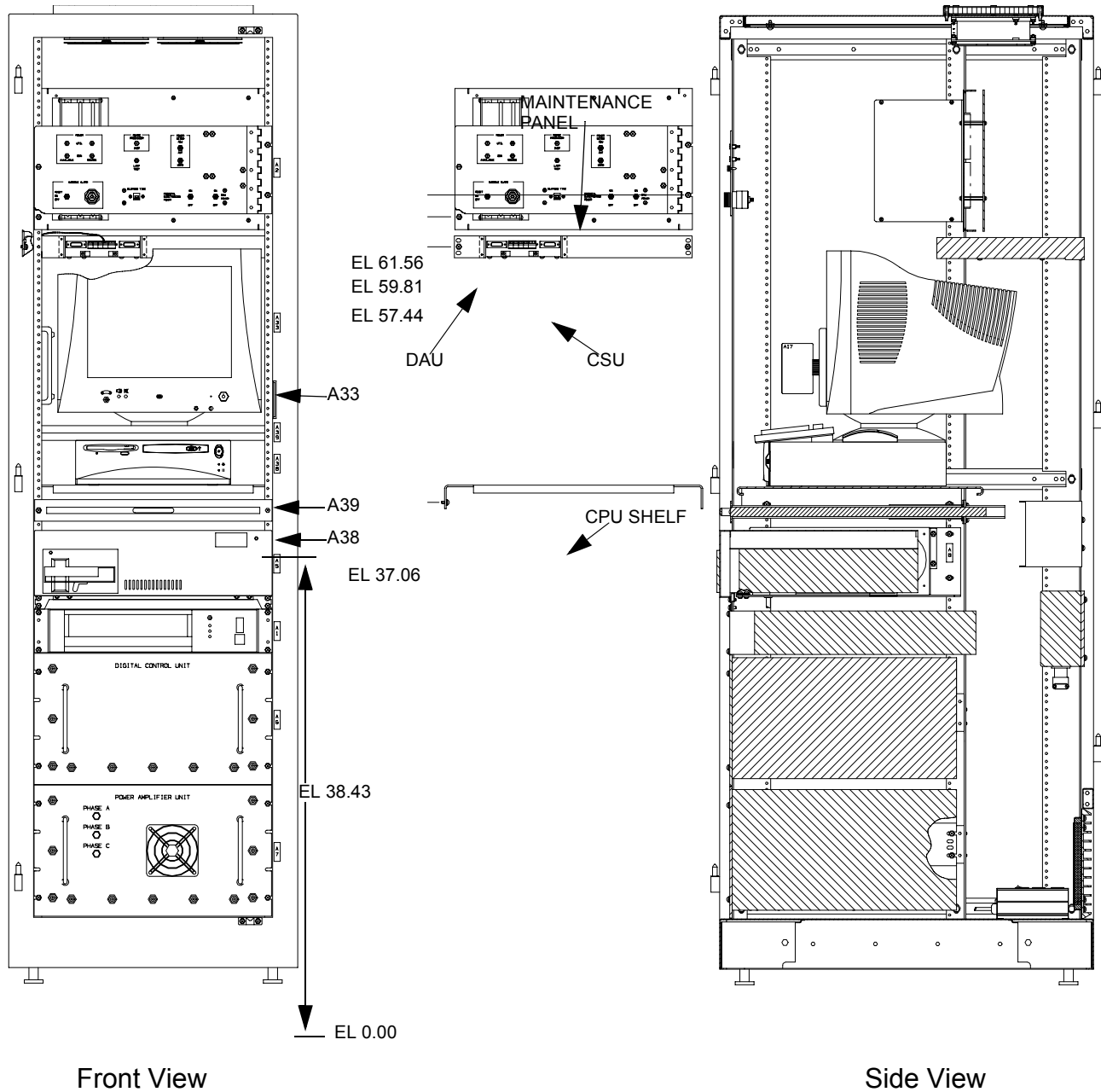


Figure 6 RDA Channel 2 Remote Access Terminal Cabinet Position

ATTACHMENT 2 (Continued)

RDA CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION

- c. Position the PC monitor on top of the CPU as far back as possible. (See [figure 5](#) for channel 1 and [figure 6](#) for channel 2)
- d. Position the mouse on the top of the CPU towards either side. (Users preference)
- e. Position the keyboard on the CPU as far forward as possible. (See [figure 5](#) for channel 1 and [figure 6](#) for channel 2)
- f. Position the Surge Suppressor (Isotel4, UD5/105E1) on the bottom of the center cabinet behind the Antenna Power Amplifier (UD5/105A7) for channel 2, and at the bottom rear of channel 1. (See [figure 5](#) for channel 1 and [figure 6](#) for channel 2)

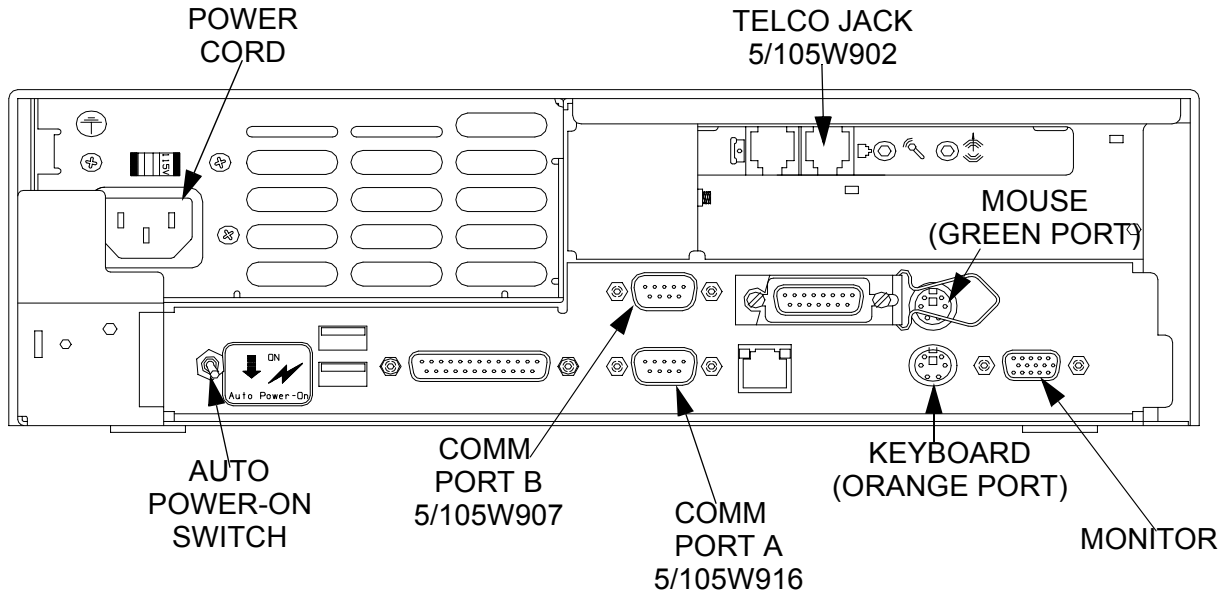


Figure 7 CPU Connection Points

- g. Using the 9-to-25 pin serial adaptor (UD5/105CP1), provided in the kit, connect cable 5/105W907 to the CPU COMM Port B. See [figure 7](#) for the location of COMM Port B. This was the EIA cable.
- h. Using the Null Modem Adaptor (UD5A41), provided in the kit, connect cable 5/105W916 to the CPU COMM Port A. See [figure 7](#) for the location of COMM Port A. This was the AUX cable.
- i. Connect the 10-foot Telephone Cord (UD5/105W902A), provided in the kit, between the CPU modem TELCO jack and the Surge Suppressor (Isotel4, UD5/105E1) OUT jack. (See [figure 7](#))

ATTACHMENT 2 (Continued)

RDA CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION

- j. Connect the CPU monitor video cable to the CPU video jack. See [figure 7](#) for the location of the monitor port.
- k. Connect the mouse to the CPU mouse jack. (Green upper port) (See [figure 7](#))
- l. Connect the keyboard to the CPU keyboard jack. (Orange lower port). (See [figure 7](#))
- m. Disconnect the RDA MMI power cord from the power strip in the RDASC cabinet.
- n. Connect the CPU power cord between the CPU and the Surge Suppressor (Isotel4, UD5/105E1). (See [figure 5](#) for channel 1 and [figure 6](#) for channel 2)
- o. Connect the RDA MMI power cord removed in step [2f](#) to the monitor.
- p. Connect the Surge Suppressor (Isotel4, UD5/105E1) to J3 of the Power Distribution Panel (UD5/105A14).
- q. Connect the monitor power cord to the Surge Suppressor (isotel4, UD5/105E1).
- r. Perform the following steps on channel 2:
 - (1) Disconnect the existing telephone cable from the RDA shelter telephone and connect the Duplex Jack (1CP1) to the telephone jack.
 - (2) Connect the existing Telephone Cable, disconnected in the previous step, to the Duplex Jack (1CP1).
- s. Connect the supplied 50-foot Telephone Cable (1W900) between the Duplex Jack (1CP1) and the Surge Suppressor (Isotel4, UD5/105E1) IN jack. For channel 1 (UD105) this is cable 1W901 and it connects the surge suppressor to the 2nd phone line (no duplex jack for this line). The cable should be routed on the shelter cable ladder through UD5J9. UD5J9 is located in the top of the UD5 cabinet above the DAU.
- t. On channel 1, disconnect cable 105W690 from the **DIAL LINE** port of the 3261 modem.
- u. Tie wrap the cables properly for a clean installation. Do not tie wrap power cables together with data cables.
- v. Turn **ON** the Surge Suppressor (Isotel4, UD5/105E1).
- w. Turn **ON** the new CPU assembly (UD5/105A38).
- x. Ensure the power on switch on the back of the CPU is turn to "Auto Power-On", enabling the computer to reboot after power resumes. See [figure 7](#) for the location of the Auto Power-On switch.
- y. Turn **ON** the new Monitor (UD5/105A33).

ATTACHMENT 2 (Continued)

RDA CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION

NOTE

The RDA Remote Access Terminals are configured for the RDA Remote Terminal. When viewing the Application Software window, and Systems Console window, the names are reversed. The following steps will direct you to change the titles to reflect the correct configurations.

- z. After the terminal software is displayed (Both the Applications window and System Console window being blank) perform the following steps. If the System Console and Applications Terminal windows are displayed correctly, proceed to step 5:
 - (1) At the Application window, press **<Shift><Alt>C** and change 113J to **Y** for YES. Press **<Alt>C** to save the changes.
 - (2) Go to the Systems Console by either clicking anywhere within the Systems Console window, or by pressing **<Alt><Tab>**.
 - (3) Verify you are in CDS by pressing the **<Enter>** key until the CDS> prompt is displayed.
 - (4) Return power to the RDA by entering **PO ON<Enter>** at the CDS> prompt on the Applications Software.
 - (5) Position the mouse cursor on the APPLICATIONS SOFTWARE window title bar.
 - (6) Click on the title bar with the RIGHT mouse button to bring up a pop-up menu.
 - (7) Click on the **Properties** option.
 - (8) Change the Program Title Property from APPLICATIONS SOFTWARE to **SYSTEM CONSOLE**, and click on **OK**.
 - (9) Position the mouse cursor on the SYSTEMS CONSOLE window title bar.
 - (10) Click on the Systems Console Title Bar with the RIGHT mouse button to bring up a pop-up menu, and click on the **Properties** option.
 - (11) Change the Program Title Property from SYSTEMS CONSOLE to **APPLICATIONS SOFTWARE**, and click on **OK**.
 - (12) Highlight the APPLICATIONS SOFTWARE window by using the mouse, then press **<Alt>X** and then **E** to close the APPLICATIONS SOFTWARE window.
 - (13) Highlight the SYSTEM CONSOLE Window by using the mouse, then press **<Alt>X** and then **E** to close the SYSTEM CONSOLE window.

ATTACHMENT 2 (Continued)

RDA CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION

- (14) At the Windows 95 task bar, using the mouse, right click on the **Start** button, then select **Open**.
 - (15) At the *Startup* Menu window, use the mouse double click on the **Programs** icon, then the **Startup** icon.
 - (16) Using the mouse, click on the APPLICATIONS icon to highlight it.
 - (17) Select **File, Rename** and enter **SYSTEM CONSOLE**, and then press **<Enter>**.
 - (18) Using the mouse, click on the SYSTEM CONSOLE icon to highlight it.
 - (19) Select **File, Rename** and enter **APPLICATIONS**, then press **<Enter>**.
 - (20) Using the mouse, click on the **x** in the upper right hand corner of the *Windows Startup* window, to close the window.
 - (21) At the Windows 95 task bar, select **Start, Programs, Startup**, and then **APPLICATIONS**.
 - (22) At the Windows 95 task bar, select **Start, Programs, Startup**, and then **SYSTEM CONSOLE**.
 - (23) Observe that the APPLICATIONS SOFTWARE and SYSTEM CONSOLE are displayed.
 - (24) Position the new RDA MMI designation plates, A33, A38, A39, as shown in [figure 5](#).
5. Perform the following troubleshooting procedures if necessary:
- a. Verify the new CPU terminal and the monitor are plugged into the surge suppressor and the surge suppressor is plugged into J3 of the power distribution panel.
 - b. Verify all cable connections are correct with no loose connections.
 - c. Verify the new CPU terminal, monitor, and surge suppressor are turned on and the green power lights are on.

ATTACHMENT 2 (Continued)

RDA CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION

d. Perform the following software checkout procedures:

(1) Is there any display at all?

Is there any display	Action
Yes	Proceed to next step
No	Check the power to the monitor, and verify the green power light is on. If there is no power light, and no display, return the monitor the National Reconditioning Center (NRC) to be forwarded to the manufacturer

(2) Perform the following APPLICATIONS SOFTWARE checkout procedures:

a Is the APPLICATIONS SOFTWARE Window displayed?

Is the Applications Software Displayed	Action
Yes	Select the APPLICATIONS SOFTWARE using the mouse, then enter ST,S<Enter> . If there is a response, proceed to the SYSTEM CONSOLE Checkout Procedures in step 5.d.(3)
No	Proceed to the next step.

b Check terminal settings for the APPLICATIONS SOFTWARE.

c Using the mouse, highlight the APPLICATIONS SOFTWARE Window and press the **<Shift><Alt>C** keys simultaneously. Verify the setup is correct, and make any corrections necessary. (See [figure 8](#)).

ATTACHMENT 2 (Continued)

RDA CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION

RDA Applications Software Terminal Setup

Kbd Ctrl	N Esc	N Cursor,Edit Kys	N Tab Backtab	N CR,LF
	N F01-F04	N F05-F08	N F09-F12	N F13-F16
Kbd Lock	Y Esc	N Cursor Kys	N Tab Backtab	N CR,LF
	N F01-F04	N F05-F08	N F09-F12	N F13-F16
Mode	Y Scroll	N Auto Line Feed	Y Auto Tab	Y New Line
	N Upper Case	N Inverse Video	N Blink Cursor	Y Block Cursor
	N Key Click	Y Screen Save	N Smooth Scroll	Y Clock Display
System	Y Send Stat Line	Y Dsplay Stat Ln	Y Pwr Up On Line	Y Return = Send
	Y 60 HZ	Y Clear to Spaces	N Send Crsr,Edit	N Send Clear All
Comm	Y Block	N Polled	Y One Stop Bit	N Half Duplex
	N Null Supp Unfor	N Null Supp Formt	Y XON/XOFF	Y 113J (No CD Req)
Printer	Y Line Drawing	Y Ready (-)	Y One Stop Bit	LPT1 Print Device
Com Page	Line,Msg,Page	Evnl Non,Odd,Evnl,Mrk,Spcl	9600	Speed - 300 to 57.6K
Prt Line	Line,Msg,Page	Spcl Non,Odd,Evnl,Mrk,Spcl	9600	Speed - 300 to 57.6K

Terminator: ♥↑↑↑ Send Line ↔↑↑↑ Field ↑↑↑↑ Unformat Line ♥↑↑↑ Unformat Pg ♥↑↑↑ Format Pg
 ↑↑↑↑ Req to Send O↑↑↑↑↑ Print Line
 Spcl Char - Multicode Char A Poll Char !! Pause Char ◀ Resume Char 080 Ring Bell
 Function Keys: Here is = Configuration File = PASSPORT.CM4

Figure 8 RDA Applications Software Setup Screen.

d After making any necessary corrections, press **<Alt>C**.

(3) Perform the following SYSTEM CONSOLE checkout procedures:

a Is the SYSTEM CONSOLE Window and * prompt displayed?

Is the System Console Window Displayed	Action
Yes	Select the SYSTEM CONSOLE using the mouse, then enter D TA<Enter> . If there is a response, proceed to the Modem Verification Checkout Procedures in step 6.
No	Go to the next step.

b Check the terminal settings for the SYSTEMS CONSOLE.

c Using the mouse, highlight the SYSTEMS CONSOLE Window and press the **<Shift><Alt> C** keys simultaneously. Verify that the setup is correct, and make any corrections necessary. (See figure 9 for the RDA System Console).

ATTACHMENT 2 (Continued)

RDA CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION

RDA System Console Terminal Setup

Kbd Ctrl	N Esc	N Cursor,Edit Kys	N Tab Backtab	N CR,LF
	N F01-F04	N F05-F08	N F09-F12	N F13-F16
Kbd Lock	Y Esc	N Cursor Kys	N Tab Backtab	N CR,LF
	Y F01-F04	Y F05-F08	Y F09-F12	Y F13-F16
Mode	Y Scroll	N Auto Line Feed	Y Auto Tab	Y New Line
	N Upper Case	N Inverse Video	Y Blink Cursor	Y Block Cursor
	N Key Click	Y Screen Save	N Smooth Scroll	Y Clock Display
System	Y Send Stat Line	Y Dsplay Stat Ln	Y Pwr Up On Line	Y Return = Send
	N 60 HZ	Y Clear to Spaces	N Send Crsr,Edit	N Send Clear All
Comm	N Block	N Polled	Y One Stop Bit	N Half Duplex
	N Null Supp Unfor	N Null Supp Formt	Y XON/XOFF	Y 113J (No CD Req)
Printer	N Line Drawing	Y Ready (-)	Y One Stop Bit	LPT1 Print Device
Com Page	Line,Msg,Page	EvN Non,Odd,EvN,Mrk,Spc	9600	Speed - 300 to 57.6K
Prt	Line,Line,Msg,Page	Spc Non,Odd,EvN,Mrk,Spc	9600	Speed - 300 to 57.6K

Terminator: ♥↑↑↑ Send Line ↔↑↑↑ Field ↑↑↑↑ Unformat Line ♥↑↑↑ Unformat Pg ♥↑↑↑ Format Pg
 ↑↑↑↑ Req to Send ↑↑↑↑↑ Print Line
 Spcl Char ← Multicode Char A Poll Char !! Pause Char ◀ Resume Char 080 Ring Bell
 Function Keys: Here is = Configuration File = PASSPORT.CM3

Figure 9 RDA System Console Terminal Setup Screen.

- d After the necessary corrections have been made, enter **<Alt>C**, and then press the **<Enter>** key.
- e If the * prompt is displayed, enter **D TA<Enter>**.

Is the * prompt displayed?	Action
Yes	Proceed to step 6
No	Enter CDS by pressing <Ctrl>VV<Enter><Enter> . If the CDS> prompt is not available, refer to EHB 6-510 for normal trouble shooting procedures.

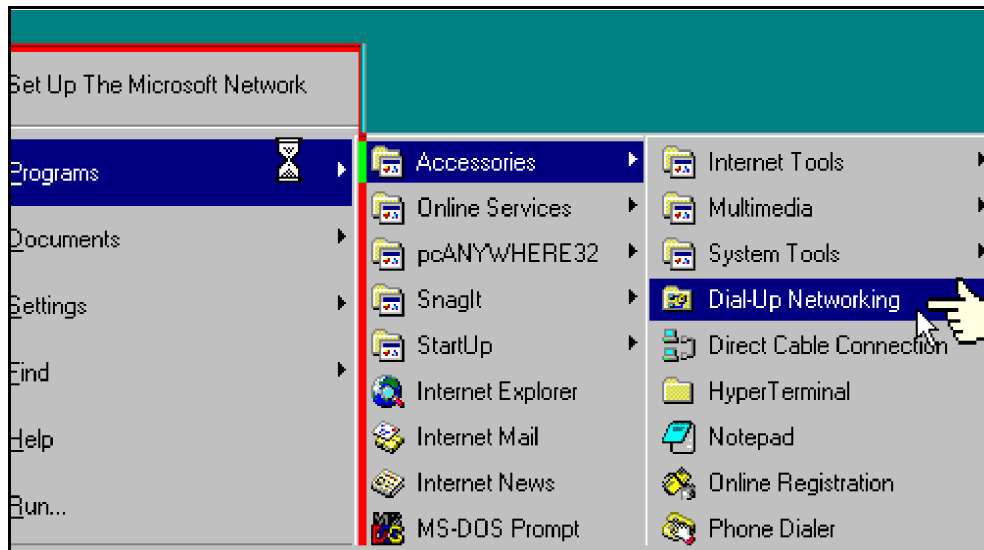
- f At the CDS> prompt, perform a reboot of the RDA.

6. Perform the following procedures to set up dial-up network connection to the MSCF located at your site:
 - a. Insert the CD-ROM titled, RDA/RPG Remote Access Terminal Software Enhancement for Open RPG, into the CD-ROM drive. If Internet Explorer autorun begins, close the autorun window by clicking on the **x** in the upper right corner.

ATTACHMENT 2 (Continued)

RDA CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION

- b. Close the PCPASSPORT Console and Application windows by pressing **<Alt>X** and then the **E** key.
- c. Using the mouse right click on the **pcANYWHERE waiting** button on the Windows 95 task bar and then click **Close**.
- d. From the Windows 95 task bar, select **Start, Programs, Accessories**, and then **Dial-Up Networking**.

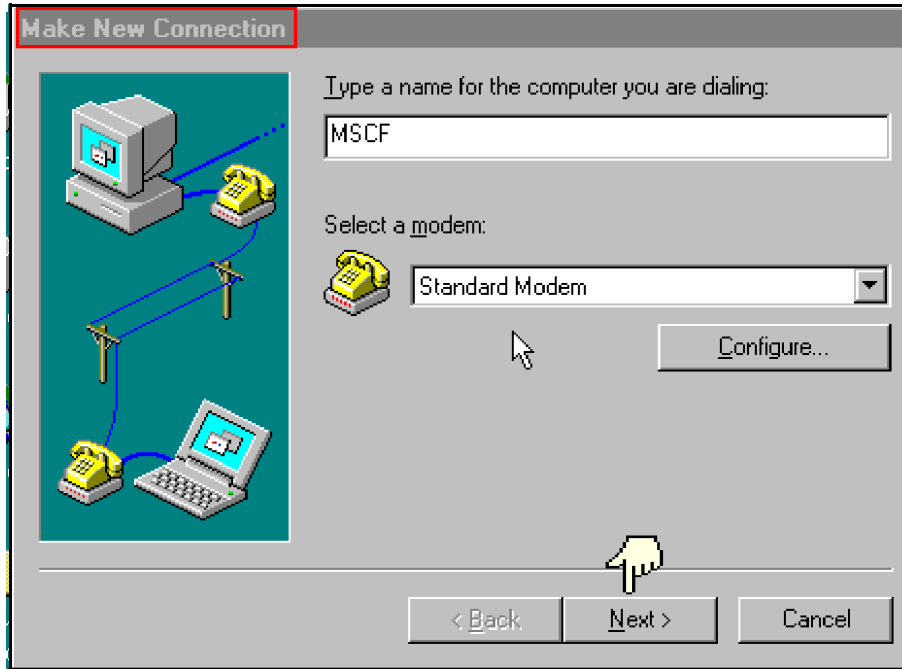


- e. In the Welcome to Dial-Up Networking window, click on the **Next>** button. The Make New Connection Window will appear.

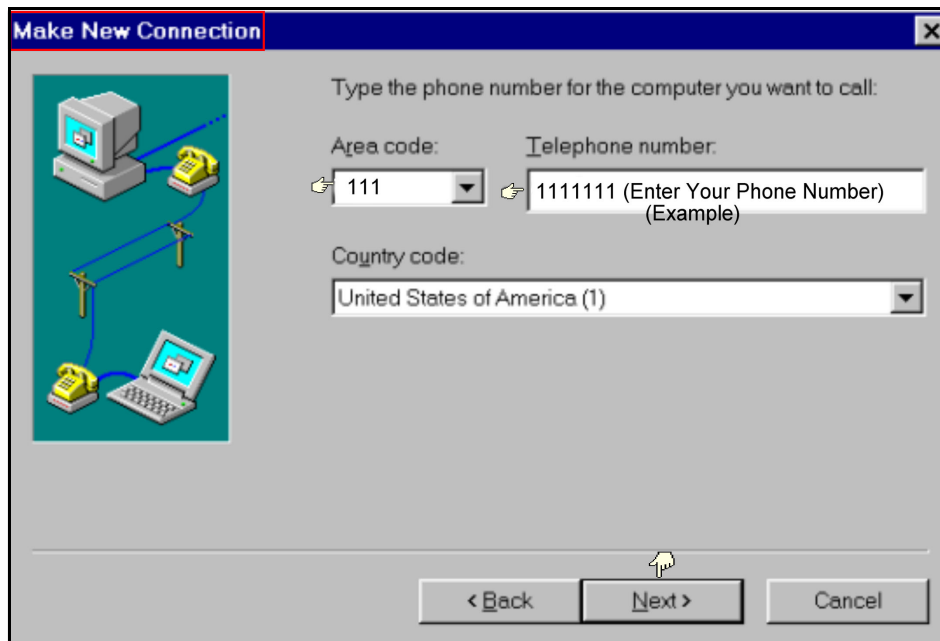
ATTACHMENT 2 (Continued)

RDA CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION

- f. At the Make New Connection window, in the Type a name for the computer you are dialing box, enter **MSCF** and then click on the **N**ext> key.



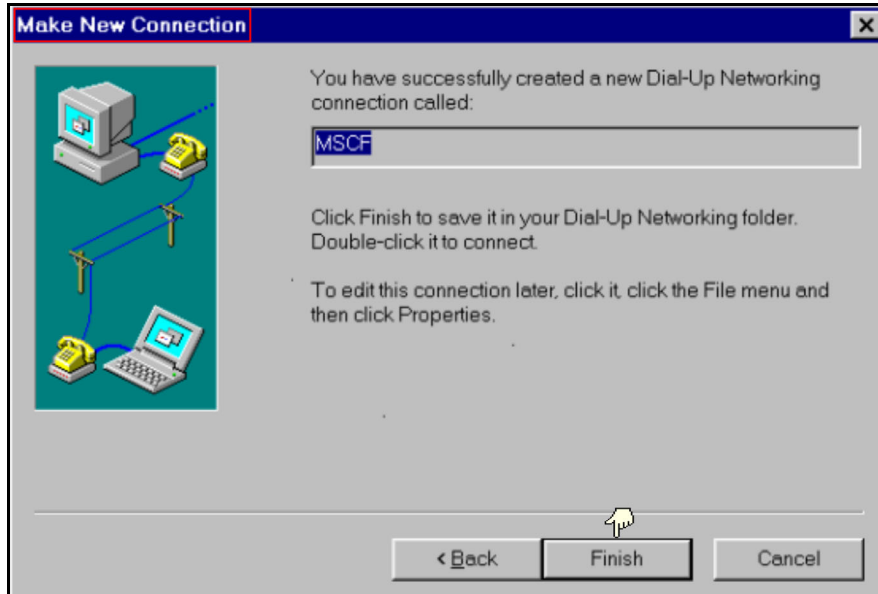
- g. At a second window titled Make New Connection, enter the *MSCF phone number* (same number as the RDA Remote Terminal) for the MSCF located at your office and then click on the **N**ext> button.



ATTACHMENT 2 (Continued)

RDA CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION

- h. A third Make New Connection window will appear. Click on the **Finish** button.

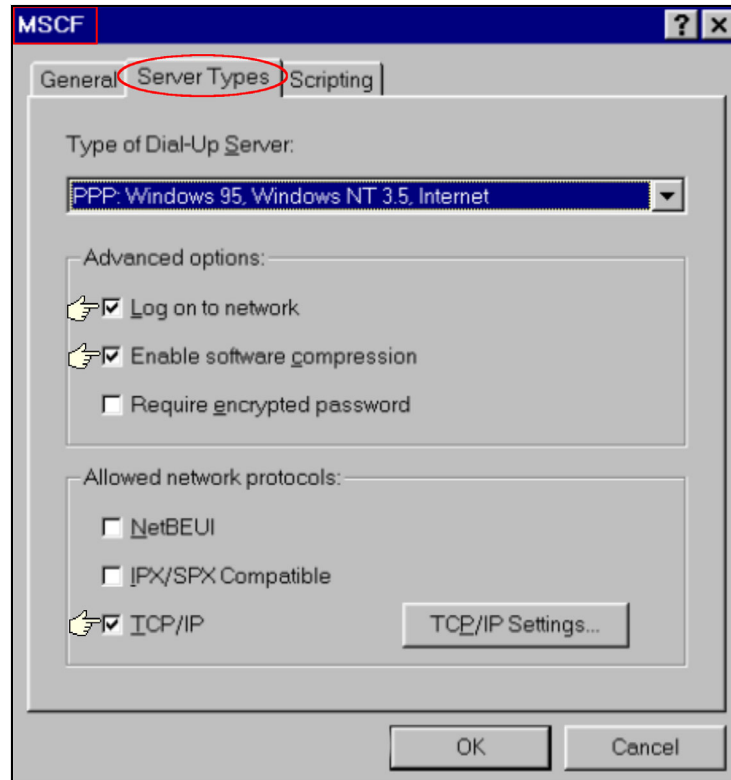


- i. Click once on the connection you just created to select it. Click on the **File** menu and the click on **Properties**.

ATTACHMENT 2 (Continued)

RDA CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION

- j. In the MSCF window, click on the **Server Types** tab. Ensure PPP, Windows 95, Windows NT 3.5, Internet is selected as the type of Dial-Up Server.

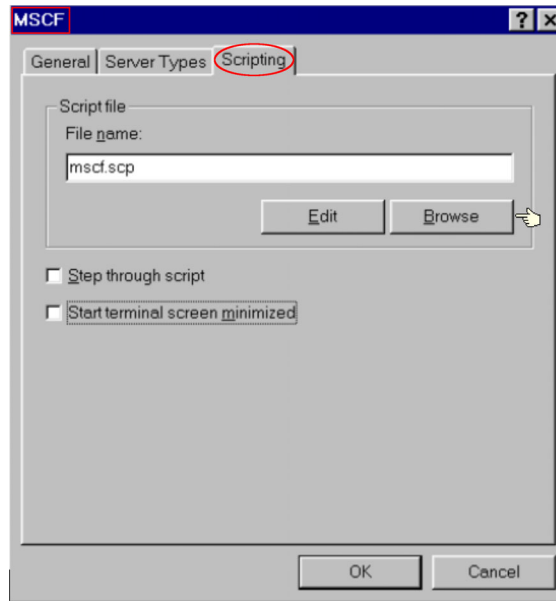


- k. In the same MSCF window, under the Server Types tab Advanced options, ensure Log on to network, and Enable software compression are selected.
- l. In the same MSCF window, under the Server Types tab Allowed network protocols:, deselect **NetBEUI** and **IPX/SPX Compatible** and ensure **TCP/IP** is selected.
7. Perform the following steps to add the Script file:

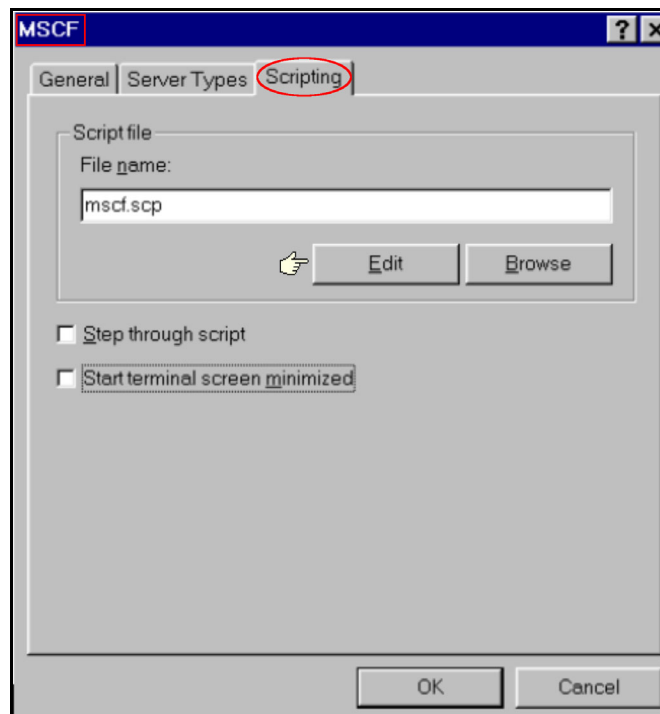
ATTACHMENT 2 (Continued)

RDA CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION

- a. In the MSCF window, click on the **Scripting** tab. Click on the **Browse** button, and then choose the **mscf** file located on the CD-ROM titled RDA/RPG Remote Access Terminal Software Enhancement for Open RPG and then select **Open**.



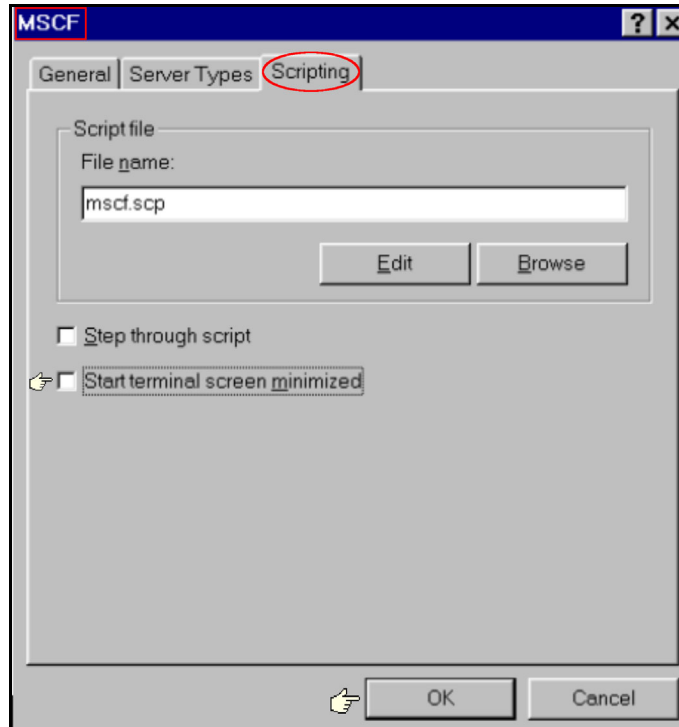
- b. In the MSCF window, Scripting tab, click on the **Edit** button. A Notepad window will appear.



ATTACHMENT 2 (Continued)

RDA CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION

- c. In the Notepad window, select **File**, and then **Save As...** Save the file to **c:\Program files\Accessories\mscf.scp** and then click on the **Save** button. Close the Notepad window.
- d. In the MSCF window, Scripting tab, deselect the Start terminal screen minimized box, and then click on the **OK** button.



- e. The Dial-Up Networking configuration for the MSCF is now completed.
8. Perform the following procedures to temporarily set up a dialup network connection to the MSCF located at ROC for testing:

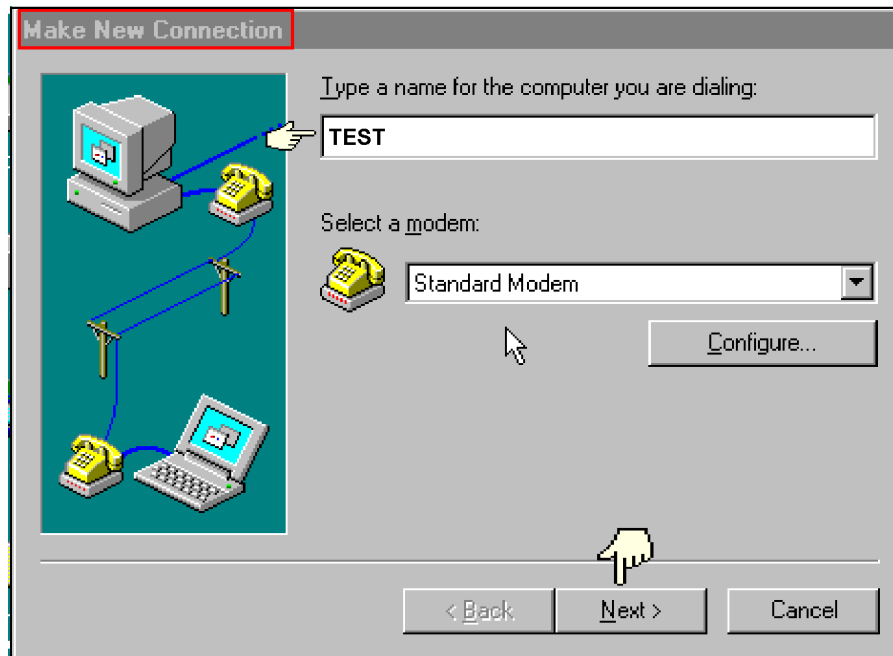
ATTACHMENT 2 (Continued)

RDA CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION

- a. In the Dial-Up Networking window, double click on the **Make New Connection** icon. The Make New Connection Window will appear.



- b. At the Make New Connection window, in the Type a name for the computer you are dialing box, enter **TEST** and then click on the **N**ext> key.



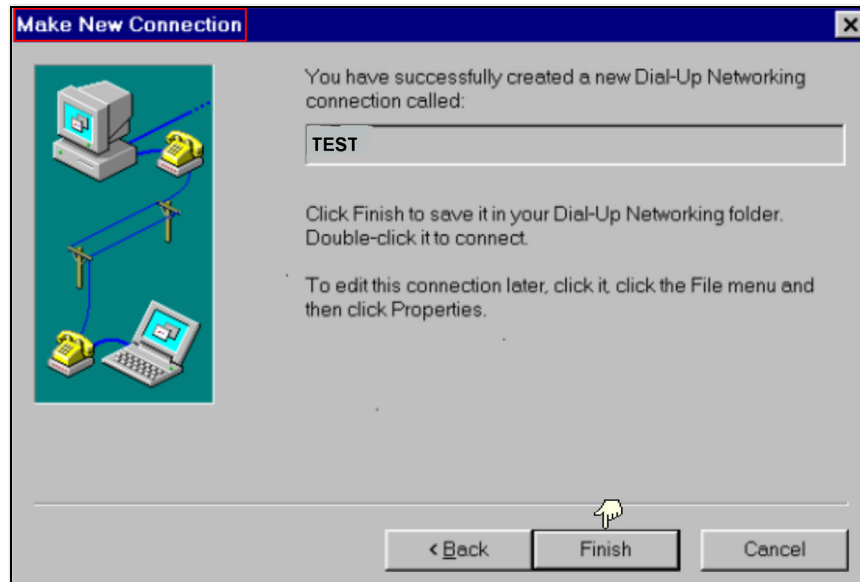
ATTACHMENT 2 (Continued)

RDA CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION

- c. At a second window titled **Make New Connection**, enter **405** in the **Area code:** text box, and **3662956** in the **Telephone number:** text box and then click on the **Next>** button.



- d. A third **Make New Connection** window will appear. Click on the **Finish** button.

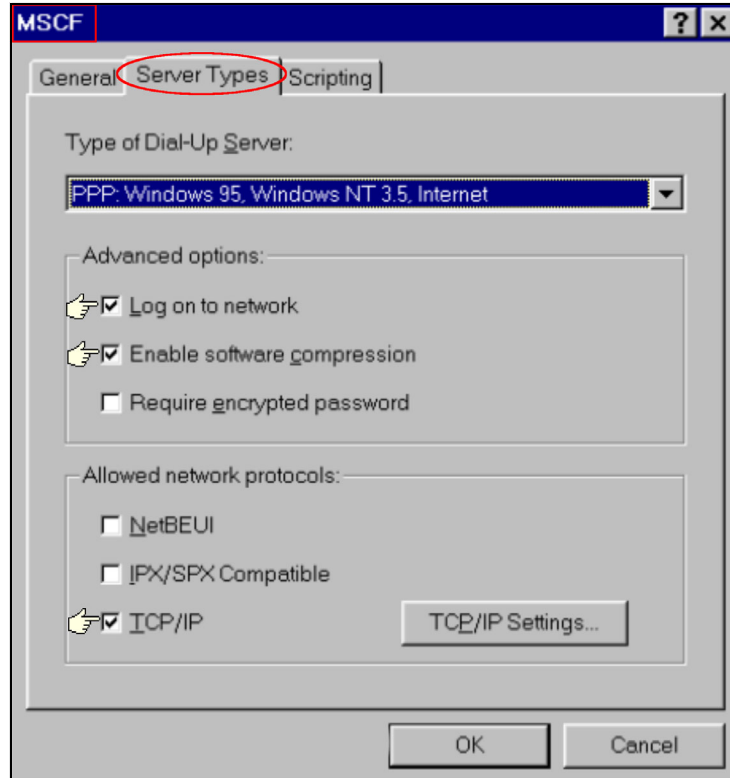


- e. Click once on the connection you just created to select it. Click on the **File** menu and the click on **Properties**.

ATTACHMENT 2 (Continued)

RDA CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION

- f. In the MSCF window, click on the **Server Types** tab. Ensure PPP, Windows 95, Windows NT 3.5, Internet is selected as the type of Dial-Up Server.

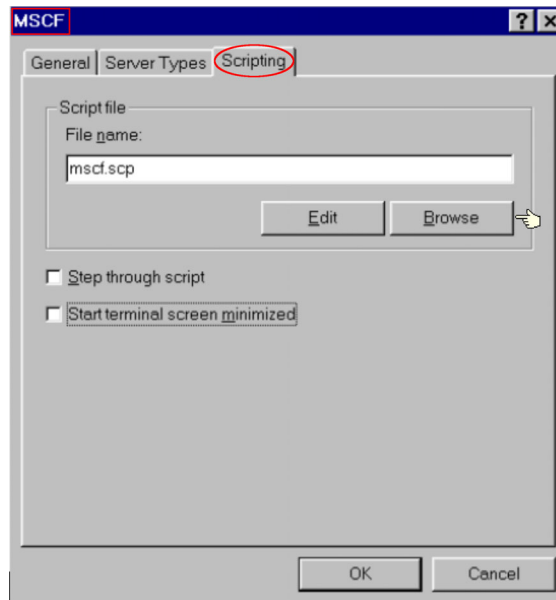


- g. In the same MSCF window, under the Server Types tab Advanced options, ensure Log on to network, and Enable software compression are selected.
 - h. In the same MSCF window, under the Server Types tab Allowed network protocols:, deselect **NetBEUI** and **IPX/SPX Compatible** and ensure **TCP/IP** is selected.
9. Perform the following steps to add the Script file:

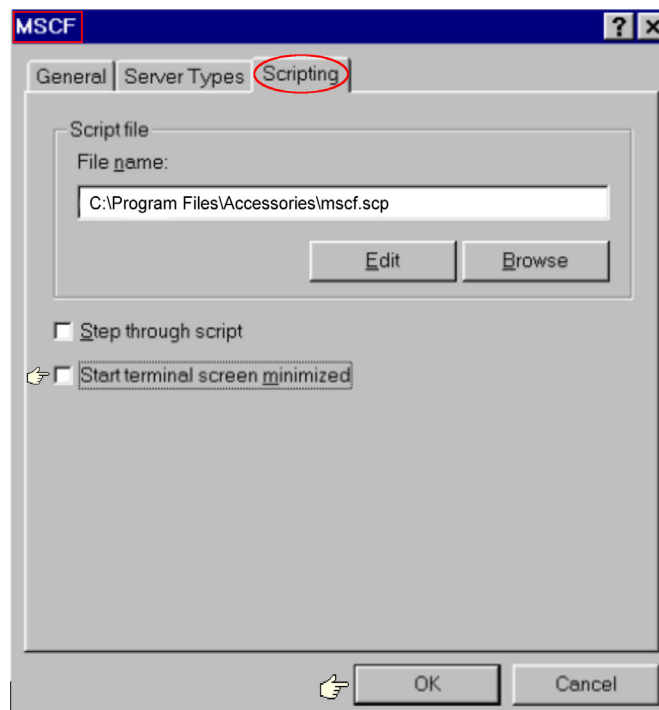
ATTACHMENT 2 (Continued)

RDA CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION

- a. In the MSCF window, click on the **Scripting** tab. Click on the **Browse** button, choose the mscf.scp file located in the C:\Program Files\Accessories directory and then click on the **Open** button to accept this file.



- b. In the MSCF window, Scripting tab, deselect the Start terminal screen minimized box, and then click on the **OK** button.



ATTACHMENT 2 (Continued)

RDA CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION

- c. The Dial-Up Networking configuration for the Test Connection is now completed.

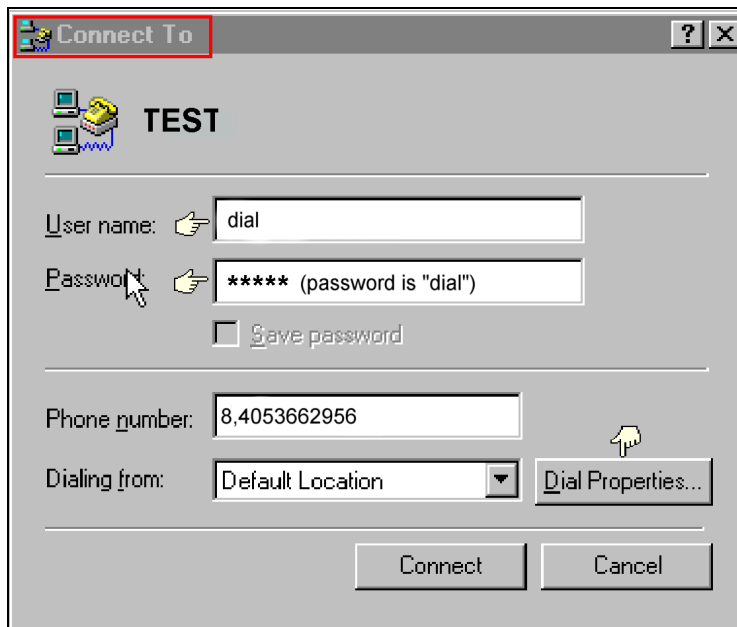
10. Perform the following steps to setup phone status:

- a. In the Dial-Up Networking window, select the TEST configuration previously created and double click.

NOTE

The password “dial” should be entered in lower case letters. The Users name and password are case sensitive.

- b. In the Connect To window, in the User name : text box enter **dial**. In the Password : text window, enter **dial**.



- c. Click on **Dial Properties**.

ATTACHMENT 2 (Continued)

RDA CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION

- d. In the **Dialing Properties** window, enter the appropriate number to access an outside line and a long distance line, and then click on the **OK** button. For example 9 followed by 9, depending on your phone system.

Dialing Properties

My Locations

Where I am:

I am dialing from: Default Location [New... Remove]

The area code is: 405

I am in: United States of America (1)

How I dial from this location:

To access an outside line, first dial: 9, for local, 9, for long distance.

☐ Dial using Calling Card: [Change...]

☒ This location has call waiting. To disable it, dial: []

The phone system at this location uses: ☒ Tone dialing ☐ Pulse dialing

Number to be dialed: 9, 366-2921

☐ Dial as a long distance call

[OK] [Cancel]

- e. In the **Connect To** window, click **Connect** to make a connection. If you receive a busy signal, wait 1 to 2 minutes and try again. A busy signal may be caused by other sites testing these procedures.
11. Perform the following steps to test the dial-up networking capability to connect to the MSCF located at the ROC:

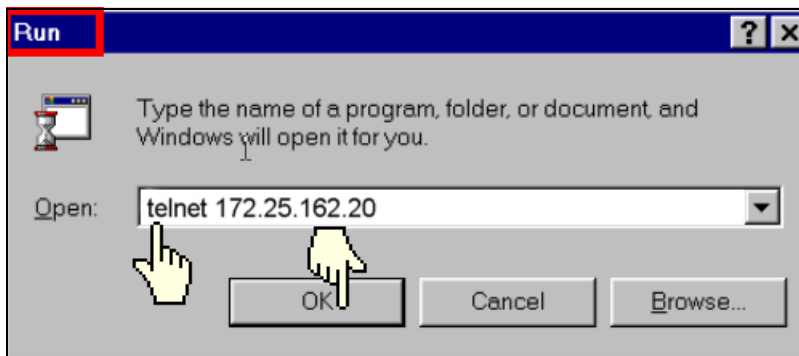
NOTE

If any additional login prompts appear through Microsoft Netmeeting or Microsoft Network, cancel them. These additional login requests will have no effect on remote MSCF connectivity.

ATTACHMENT 2 (Continued)

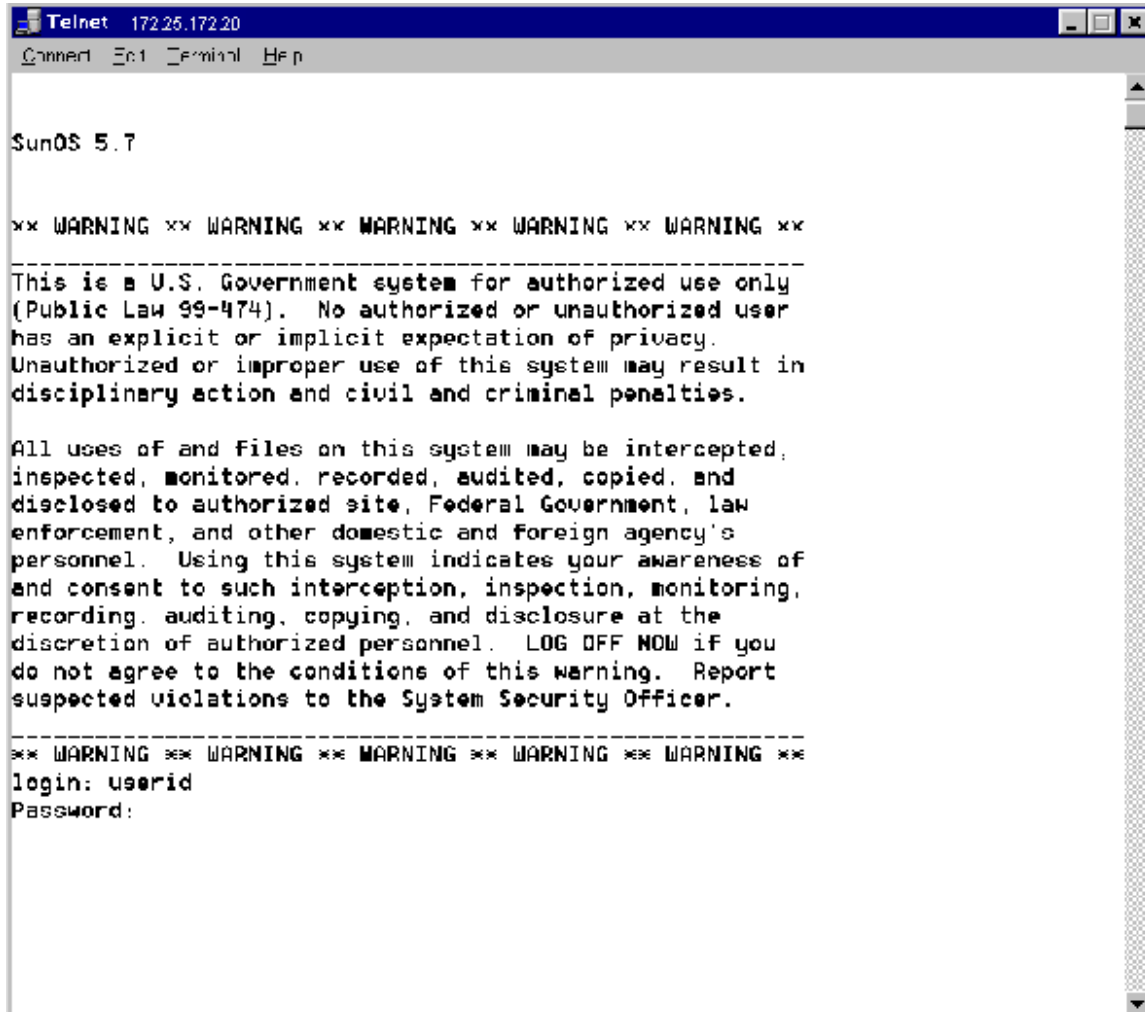
RDA CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION

- a. Login screen appears. After the login and password are verified, click **Continue** and the login screen will minimize with the successful completion of the login. Close the test connection window by clicking on the **Close** button.
- b. At the Windows 95 task bar, click on the **Start** and then the **Run** button to establish a telnet session with the MSCF. In the Run window, on the Open : text line, enter **telnet 172.25.162.20** and then click on the **OK** button. A government warning screen and a UNIX login prompt, as shown below will appear. At the **Telnet** window, login as **roger<Enter>**, with the password being **roger<Enter>** as well.



ATTACHMENT 2 (Continued)

RDA CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION



The screenshot shows a Telnet window titled "Telnet 172.25.172.20". The window has a menu bar with "Connect", "Exit", "Terminal", and "Help". The main text area displays the following content:

```
SunOS 5.7

** WARNING ** WARNING ** WARNING ** WARNING ** WARNING **

-----
This is a U.S. Government system for authorized use only
(Public Law 99-474). No authorized or unauthorized user
has an explicit or implicit expectation of privacy.
Unauthorized or improper use of this system may result in
disciplinary action and civil and criminal penalties.

All uses of and files on this system may be intercepted,
inspected, monitored, recorded, audited, copied, and
disclosed to authorized site, Federal Government, law
enforcement, and other domestic and foreign agency's
personnel. Using this system indicates your awareness of
and consent to such interception, inspection, monitoring,
recording, auditing, copying, and disclosure at the
discretion of authorized personnel. LOG OFF NOW if you
do not agree to the conditions of this warning. Report
suspected violations to the System Security Officer.

-----
** WARNING ** WARNING ** WARNING ** WARNING ** WARNING **

login: userid
Password:
```

- c. After logging into the MSCF, at the prompt enter the command **remote_mscfserver<Enter>**.
- d. Double click on the Internet Explorer icon and then enter the URL of **http://172.25.162.20:5801/<Enter>** for the location address.

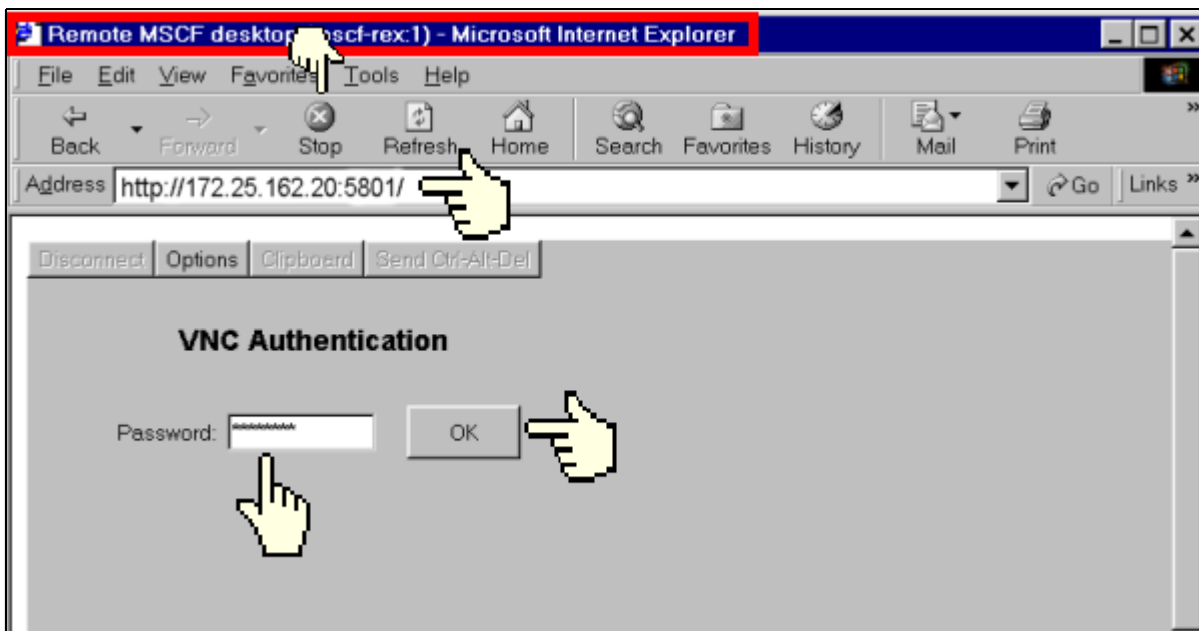
ATTACHMENT 2 (Continued)

RDA CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION

NOTE

The following step requires CD-ROM RDA/RPG Remote Access Terminal Software Enhancement for Open RPG to be in the CD ROM drive.

- e. Once Microsoft Internet Explorer tries to open the URL address, you'll be prompted to install Microsoft Virtual Machine. Select **Download** to download the Microsoft Virtual Machine. The program states that it will take approximately 42 minutes to install. The program actually takes approximately 1 to 2 minutes.

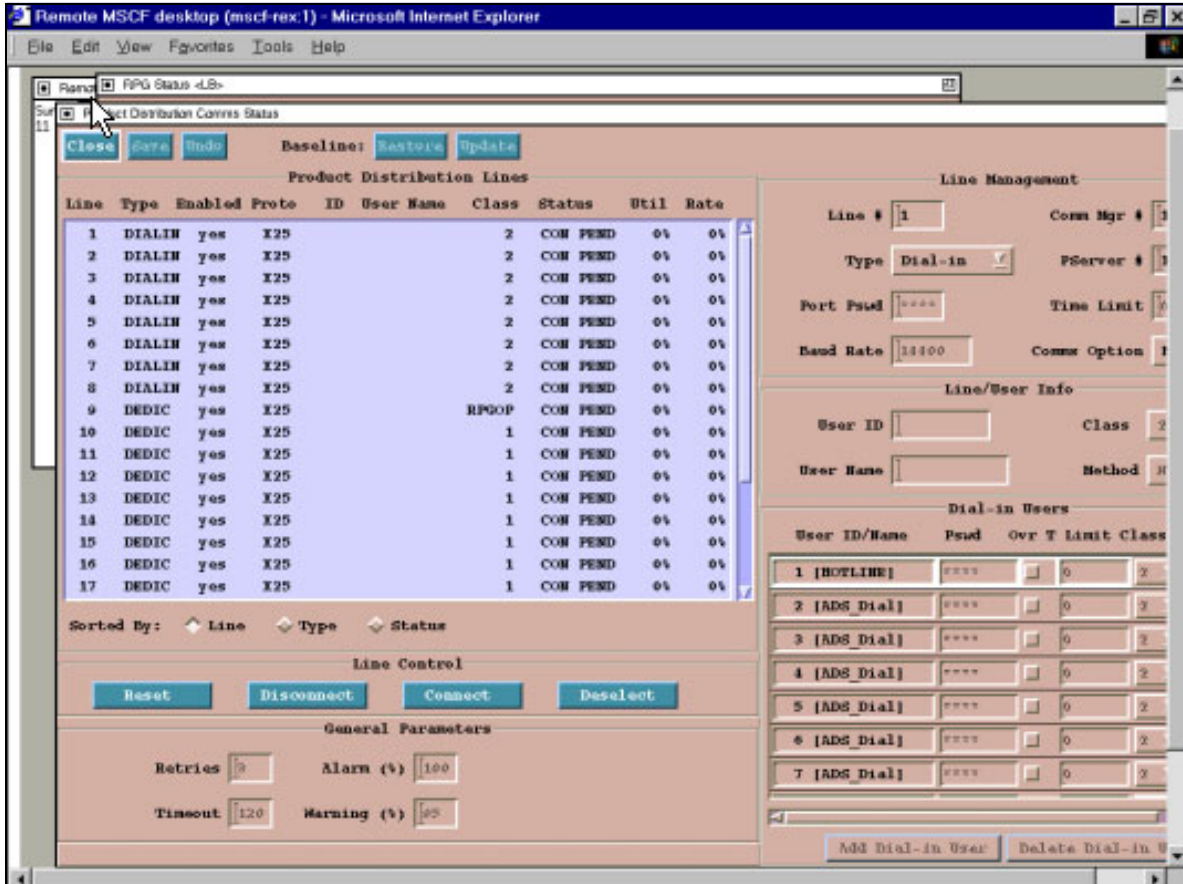


- (4) Enter the VNC password as **password** and then click on **OK**.
- (5) Verify the RPG application screen opens in the browser, as shown below, then close

ATTACHMENT 2 (Continued)

RDA CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION

Internet Explorer by clicking on the **x** in the upper right hand corner.



12. Exit the Remote MSCF Server by performing the following steps:

NOTE

If you disconnect from the MSCF without exiting the Remote MSCF Server, the server continues to run under your user id. If someone else with dialup access to the MSCF dials into it while the Remote MSCF Server is still running, they can access the server through a web browser and any actions they carry out will appear to have been done by you. This is equivalent to logging into a system and then walking away without securing it. Therefore, follow these steps to exit the Remote MSCF Server:

- Return to your telnet window and enter, **remote_mscfserver -kill :1<Enter>**.
- In the telnet window enter **exit<Enter>**. This will release you from the ability to do RPG operations. Enter **exit<Enter>** again to disconnect the telnet session at the MSCF.

ATTACHMENT 2 (Continued)

RDA CDT-100 REMOVAL AND RDA/RPG REMOTE ACCESS TERMINAL INSTALLATION

- c. Click **OK** to confirm the lost connection.
 - d. Close the telnet windows by clicking on the **x** in the upper right and corner.
 - e. At the **Dial-Up Networking** window, double click on the **Dial-Up Networking** icon for your TEST connection, select **Disconnect**.
 - f. At the **Dial-up Networking** window, right click on the **TEST** icon and then select **Delete** to delete the TEST icon. When asked if you want to delete the TEST icon, click on the **Yes** button and then close the Dial-Up Networking window.
 - g. Restore system to normal operations and remove the CD-ROM titled RDA/RPG Remote Access Terminal Software Enhancement for Open RPG from the CD-ROM drive.
13. The initial software load will be performed by the NRC. It is not necessary to perform any software restoral as part of initial installation. If there appears to be a software problem during initial installation, return the terminal to the NRC.
14. Switch from Channel 2 to Channel 1, and peform steps 2 through 12 in its entirety to install the RRRAT terminal in channel 1. It is not necessary to reconfigure the RDA cabinet in channel 1.
15. After completing the entire modification for channel 1 and channel 2, leave the 2 A/B switches to the "A" (local) position before leaving the shelter.

ATTACHMENT 3

EFFECTIVITY

NWS

NEXRAD Site Name	City, ST	EQP	SID	ORG Code
Central Region				
GRAND JUNCTION (RDA 1)	GRAND JUNCTION, CO	RDA	GJX	WR9476
GRAND JUNCTION (RDA 2)	GRAND JUNCTION, CO	RDA	GJX	WR9476
GRAND JUNCTION (RPG)	GRAND JUNCTION, CO	RPG	GJT	WR9476
Western Region				
CEDAR CITY (RDA 1)	CEDAR CITY, UT	RDA	ICX	CONCDC
CEDAR CITY (RDA 2)	CEDAR CITY, UT	RDA	ICX	CONCDC
CEDAR CITY (RPG)	SALT LAKE CITY, UT	RPG	SLC	WT9932
ELKO (RDA 1)	ELKO, NV	RDA	LRX	WT9903
ELKO (RDA 2)	ELKO, NV	RDA	LRX	WT9903
ELKO (RPG)	ELKO, NV	RPG	LKN	WT9903
FLAGSTAFF (RDA 1)	FLAGSTAFF, AZ	RDA	FSX	WT9375
FLAGSTAFF (RDA 2)	FLAGSTAFF, AZ	RDA	FSX	WT9375
FLAGSTAFF (RPG)	BELLEMONT, AZ	RPG	FGZ	WT9375

NWS: Modification Note 64

ATTACHMENT 3 (Continued)

EFFECTIVITY

NEXRAD Site Name	City, ST	EQP	SID	ORG Code
MEDFORD (RDA 1)	MEDFORD, OR	RDA	MAX	WT9597
MEDFORD (RDA 2)	MEDFORD, OR	RDA	MAX	WT9597
MEDFORD (RPG)	MEDFORD, OR	RPG	MFR	WT9597
MISSOULA (RDA 1)	MISSOULA, MT	RDA	MSX	WT9773
MISSOULA (RDA 2)	MISSOULA, MT	RDA	MSX	WT9773
MISSOULA (RPG)	MISSOULA, MT	RPG	MSO	WT9773
RENO (RDA 1)	NIXON, NV	RDA	RGX	WT9488
RENO (RDA 2)	NIXON, NV	RDA	RGX	WT9488
RENO (RPG)	RENO, NV	RPG	REV	WT9488
SALT LAKE CITY (RDA 1)	SALT LAKE CITY, UT	RDA	MTX	WT9932
SALT LAKE CITY (RDA 2)	SALT LAKE CITY, UT	RDA	MTX	WT9932
SALT LAKE CITY (RPG)	SALT LAKE CITY, UT	RPG	SLC	WT9932
YUMA (RDA 1)	YUMA, AZ	RDA	YUX	WT9278
YUMA (RDA 2)	YUMA, AZ	RDA	YUX	WT9278
YUMA (RPG)	PHOENIX, AZ	RPG	PSR	WT9278

ATTACHMENT 4

ENGINEERING MANAGEMENT REPORTING SYSTEM MAINTENANCE RECORD										Document Number G 51301			
General Information		1. Open Date 08 / 06 / 02		Time 0900		2. Initials DKR		3. Response Priority (check one) <input type="radio"/> Immediate <input type="radio"/> Routine <input checked="" type="radio"/> Not Applicable		4. Close Date 08 / 06 / 02		Time 1500	
5. Description RETROFIT OF CDT-100 WITH PC IAW NEXRAD MOD NOTE 64													
Equipment Information		6. Station ID MTX		7. Equipment Code RDA		8. Serial Number AA36174401		9. TM M		10. AT M		11. How Mal. 999	
12. EQUIPMENT OPERATIONAL STATUS TIMES		a. Fully Operational 1:30		b. Logistics Delay 		Partly Operational		c. All Other 		d. Logistics Delay 		Not Operational 	
		e. All Other 4:30											
13. Parts Failure Information													
Block #		a. ASN		b. NSN		c. TM		d. AT		e. How Mal.		f. Qty.	
		g. Maint. Hrs.											
1													
2													
3													
4													
5													
14. Work Load Information													
Type		Staff Hrs.											
a. Routine													
b. Non-routine													
c. Travel		1:30											
d. Misc.		4:30											
e. Overtime													
15. Maintenance Comments													
REPLACED CDT-100 WITH PC													
16. Initials DKR													
17. SPECIAL PURPOSE REPORTING		a. Mod. No. 64		b. Mod./Act./Deact. Date 08/06/02		c.		d.		e.			
18. CONFIGURATION MGMT. REPORTING (use as directed)		ASN		Vendor Part Number (New Part)		Serial Number (Old Part)		Serial Number (New Part)					